



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL PASSTOX CLEAR HERBICIDE
Other Names: DSMS, disodium methanearsonate
Chemical Group: Arsenical
CAS No.:
Recommended Use: Fungicide for use on horticultural crops.
Supplier Details: Colin Campbell (Chemicals) Pty Ltd ABN 29 000 045 590
5 Blackfriar Place
Wetherill Park NSW 2164
Telephone: (02) 9725 2544
Fax: (02) 9604 7768
Email: cccsyd@campbellchemicals.com.au
Website: www.campbellchemicals.com.au
Contact: Product Development Manager – (02) 9725 2544
Emergency Telephone Number: 13 11 26 (Poisons Information Centre)

2) HAZARDS IDENTIFICATION

GHS classification: Acute toxicity oral : Category 4
Acute toxicity dermal : Category 4
Acute toxicity inhalation: Category 4

Signal Words: None specified

Hazard Statements : H302 : Harmful if swallowed
H312 : Harmful in contact with skin
H332 : Harmful if inhaled
H373 : May cause damage to organs through prolonged or repeated exposure

General Precautionary Statements : P101 : If medical advice is needed, have product container or label at hand.
P102 : Keep out of reach of children
P103 : Read label before use.

Pictograms :





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MATERIAL SAFETY DATA SHEET

Date of Issue: 1 December 2016

Precautionary statements	P201 : Obtain special instruction before use.
Prevention:	P202 : Do not handle until all safety precautions have been read and understood. P260 : Do not breathe fumes, mists, vapours or spray. P262 : Do not get in eyes, on skin, or on clothing. P264 : Wash contacted areas thoroughly after handling. P270 : Do not eat, drink or smoke when using this product. P271 : Use only outdoors or in a well ventilated area. P280 : Wear protective gloves, protective clothing and eye or face protection.
Precautionary statements	P314 : Get medical advice or attention if you feel unwell.
Response:	P363 : Wash contaminated clothing before reuse. P301 + P312 : IF SWALLOWED : Call a POISONS CENTRE or doctor if you feel unwell. P310 + P330 + P331 : IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. P302 + P340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. P370 + P378 Not combustible. Use extinguishing media suited to burning materials.
Storage :	P405 Store locked up. P410 : Protect from sunlight. P402 + P404 : Store in a dry place. Store in a closed container. P403 + P235 : Store in a well-ventilated place. Keep cool.
Disposal:	P501 Dispose of contents/container as specified on the registered label.
Other information :	Dangerous goods. Hazardous substance.

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
DSMA (Disodium methyl arsonate)	144-21-8	220g/L
Other ingredients	Non hazardous	60-100%

4) FIRST AID MEASURES

**If poisoning occurs, move out of dangerous area immediately contact a doctor or Poison Information Centre (Ph: 13 11 26) and follow the advice given.
Show this Material Safety Data Sheet to the doctor.**

If inhaled:	If symptoms of poisoning become evident, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air and keep at rest. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.
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Date of Issue: 1 December 2016

In case of skin contact:	Carefully remove contaminated clothing and shoes immediately. Wash gently and thoroughly affected areas with mild soap and plenty of water for 10-20 minutes or until product is removed.
In case of eye contact:	No effects expected. If irritation does occur, check and remove any contact lenses. Protect unharmed eye. Rinse eyes immediately with clean water for at least 5 minutes. Keep eye wide open while rinsing. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.
If swallowed:	If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	Symptoms may be delayed. The first aid procedure should be established in consultation with a doctor responsible for industrial medicine.

5) FIRE FIGHTING MEASURES

Extinguishing media	Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazard from combustion products	Not combustible.
Precautions for fighting fires	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire residues and contaminated fire extinguishing water in accordance with local regulations. Do not release contaminated water into the environment.
Hazchem Code	2X

6) ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8 PERSONAL PROTECTION. Keep people and animals away. Ensure adequate ventilation. Contain spill and absorb with earth, sand, clay or other absorbent material. Prevent spilled material from entering drains or watercourses. Collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc is unavoidable warn the local water authority.



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MATERIAL SAFETY DATA SHEET

Date of Issue: 1 December 2016

7) HANDLING AND STORAGE

- Handling** Keep out of reach of children. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.
- Storage** Store in the closed original container in a cool well ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers.

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	TWA (mg/m ³)	STEL (mg/m ³)
	0.05 as arsenic	Not set

Exposure standard – **Time Weighted Average (TWA)** means the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.

Short Term Exposure Limit (STEL) means the exposure level that may be equalled (but should not be exceeded for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL.

- Biological Limit Values** None allocated
- Engineering Controls** Control process conditions to avoid contact. Use in a well ventilated area only. If natural ventilation is inadequate, use of a fan is suggested.
- Personal Protective Equipment**
- Eyes: Safety goggles. Eye wash bottle with pure water.
 - Clothing: Impervious overalls buttoned to the neck and wrists and a washable hat.
 - Gloves: Polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water.
 - Respiratory: If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

- Appearance:** Golden – light brown translucent liquid
- Odour:** No data.
- Vapour pressure:** 2.37 kPa at 20°C (water vapour pressure)
- Relative vapour density:** Not available
- Evaporation rate:** As for water
- Boiling point:** About 100°C at 100 kPa
- Freezing/Melting point:** Below 0°C



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MATERIAL SAFETY DATA SHEET

Date of Issue: 1 December 2016

pH:	5.5
Solubility:	Completely soluble in water.
Specific gravity:	No data
Flash point:	92°C
Flammability (explosive) limit:	Not available
Auto ignition temperature:	No data available.
Partition coefficient (octanol/water):	No data available.
Viscosity:	No data available
Oxidising properties:	No data available.

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use and storage.
Conditions to avoid:	Protect this product from light.
Incompatible materials :	Strong acids, strong bases, strong oxidising agents.
Hazardous decomposition products:	This product is likely to decompose only after heating to dryness, followed by further strong heating. In a fire, formation of carbon monoxide and carbon dioxide can be expected. Water is also formed, and sodium and arsenic compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement, and unconsciousness followed by coma and death.
Hazardous reactions:	Stable under recommended storage conditions. No decomposition if used as directed. Does not polymerise.

10) TOXICOLOGICAL INFORMATION

Inhalation:	Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort. LONG TERM EXPOSURE – No data for health effects associated with long term inhalation.
Skin contact:	Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort. LONG TERM EXPOSURE – No data for health effects associated with long term skin exposure.
Eye contact:	This product may be irritating to the eyes, but is unlikely to cause anything more than mild transient discomfort.. LONG TERM EXPOSURE – No data for health effects associated with long term eye exposure.



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MATERIAL SAFETY DATA SHEET

Date of Issue: 1 December 2016

Ingestion:	Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product may be irritating to mucous membranes, but is unlikely to cause anything more than mild transient discomfort. LONG TERM EXPOSURE – No data for health effects associated with long term ingestion.
Chronic toxicity:	
Germ cell mutagenicity:	No data
Carcinogenicity:	No significant ingredient is classified as carcinogenic by SWA, NTP or IARC.
Acute toxicity:	
Oral toxicity (active constituent):	>1800 mg/kg in rats
Dermal toxicity (active constituent):	>10,000 mg/kg in rabbits
Inhalation toxicity:	No data
Sensitisation:	No data

11) ECOLOGICAL INFORMATION

Very toxic to aquatic organisms and may cause adverse effects in the aquatic environment. DO NOT contaminate streams, rivers or waterway with this product or the used containers.

Ecotoxicity:	DSMA:
	Fish toxicity: Slightly toxic to fish.
	Birds : No data
	Bees : Acutely toxic to slightly toxic.

Environmental fate, persistence and degradability, mobility	DSMA is metabolised by soil bacteria to methylarsine, arsenate and methylarsonate (half life in soil is 55 days).
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Identified harmful effects on environment:	No identified harmful effects.
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Other precautions:	Do not contaminate dams, waterways or sewers with this product.
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12) DISPOSAL CONSIDERATIONS

This product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used containers. Triple or preferable pressure rinse containers before disposal. Add rinsings to the mixing tank. Do not dispose of undiluted chemical on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If



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not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

13) TRANSPORT INFORMATION

International regulation

UNRTDG

UN Number : Not classified as a Dangerous Good
Proper shipping name:
Class and subsidiary risk:
Packing Group:
Labels

IATA-DGR

UN/ID No.: Not classified as a Dangerous Good
Proper shipping name:
Class:
Packing group:
Labels:
Packing instruction (cargo aircraft):
Packing instruction (passenger aircraft):

IMDG-Code

UN number: Not classified as a Dangerous Good
Proper shipping name:
Class:
Packing group:
Labels:
EmS Code:
Marine pollutant:

ADG

UN number: Not classified as a Dangerous Good
Proper shipping name:
Class:
Packing group:
Labels:
Hazchem code:
Remarks:



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14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 65189

15) OTHER INFORMATION

Date of revision : 1 December 2016
Reason for revision : Upgrading to GHS format.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

END OF MSDS