



# DAVID GRAY & CO PTY LIMITED

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(During Office Hours 8am to 4.30pm Monday to Friday)

Date of Issue: 20 January 2010

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## MATERIAL SAFETY DATA SHEET

### IDENTIFICATION

**PRODUCT NAME:** David Grays Outdoor Fogger Regular

**OTHER NAME:** None available

**MANUFACTURERS CODE:** 01649 (400g)

**USE:** Aerosol for the outdoor control of flying insects.

### HEALTH HAZARD INFORMATION

#### HEALTH EFFECTS

**HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia):** Xn - Harmful  
Classified as hazardous according to the criteria of NOHSC.

**RISK PHRASES:** R65 – May cause lung damage if swallowed

**SAFETY PHRASES:** S2- Keep out of reach of children  
S24- Avoid contact with the skin

### INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Water	7732-18-5	30 - 60%
Butane/propane	68475-59-2	30 - 60%
Hydrocarbon solvent	64742-47-8	10 - 30%
Piperonyl Butoxide	51-03-6	1.5%
Tetramethrin	7696-12-0	0.35%
Permethrin 25:75	52645-53-1	0.2%
Other ingredients determined to be non-hazardous	-	To 100%

## FIRST AID MEASURES

**GENERAL:**

In every case of suspected poisoning, contact a doctor or a Poisons Information Centre immediately.  
(Phone: 131126)

**SWALLOWED:**

Seek medical attention immediately. Do not induce vomiting. It is recommended to give a slurry of activated charcoal.

**NOTE:** Do not give fluids, tablets or induce vomiting if patient is unconscious or convulsing.

**EYE:**

Hold eyelids open and flush eyes with water for at least fifteen minutes. Seek medical attention.

**SKIN:**

Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least fifteen minutes. If symptoms of poisoning occur, seek medical attention immediately.

**INHALED:**

Immediately remove patient to fresh air. Seek medical attention if effects persist.

**FIRST AID FACILITIES:**

Soap, water, eyewash

**ADVICE TO DOCTOR:**

Treat symptomatically.

## FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry Chemical, Foam or Carbon Dioxide

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon, Nitrogen, Sulphur and Hydrogen Chloride

**FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT:** Self-contained breathing apparatus. Rubber gloves and rubber boots

**HAZCHEM CODE:** 2YE

## ACCIDENTAL RELEASE MEASURES

**EMERGENCY PROCEDURE:** Spill or leak area should be isolated immediately. Advise emergency services if required (FESA). Keep all unauthorised persons away from the area. Contain spill if safe to do so. (See below)

**CONTAINMENT AND CLEAN UP:** Contain spill by using absorbent material ie (sand, earth or attapulgate). Cover ant open drains with plastic, rubber etc. (See section handling and storage for PPE requirements). Do not allow entry into waterways. Collect (shovel or sweep) absorbent material into sealable steel or plastic containers, clearly labelled. Disposal of contaminated material must be done in accordance with State and/or Local regulations. Small spills: If spilt indoors, once absorbed and removed, wash contaminated surface with a mild detergent solution

## HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Avoid contact of the product with hands, skin, eyes and avoid breathing spray mist. Do not allow the product or spray mist to enter the mouth.

Wash hands, face and arms immediately after use and before eating, drinking, smoking or going to the toilet.

### STORAGE:

Keep cool out of direct sunlight and provide adequate ventilation. Avoid contact with extremes of heat and oxidisers.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Propellant – propane/butane 800ppm

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.

### BIOLOGICAL LIMIT:

Not relevant

### ENGINEERING CONTROLS:

Use only in a well ventilated area.

### PERSONAL PROTECTIVE EQUIPMENT:

No personal protection required when used as recommended on the label.

## PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Very fine white mist
<b>ODOUR:</b>	Pleasant floral odour
<b>VAPOUR PRESSURE:</b>	310 – 345kPa (45 – 50psig) @ 25°C
<b>VAPOUR DENSITY:</b>	Not available for mixture
<b>BOILING POINT:</b>	Propellant – minus 42°C
<b>MELTING POINT:</b>	Propellant – minus 138°C
<b>SOLUBILITY IN WATER:</b>	Concentrate is miscible with water
<b>SPECIFIC GRAVITY:</b>	Not applicable for packed aerosol
<b>FLASH POINT:</b>	Propellant – minus 104°C
<b>FLAMMABILITY LIMITS:</b>	Propellant 1.5% to 9.6% in air (v/v)
<b>IGNITION TEMPERATURE:</b>	Not determined for mixture

## STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable at normal storage conditions
<b>CONDITIONS TO AVOID:</b>	Extremes of heat
<b>INCOMPATIBLE MATERIALS:</b>	Oxidisers
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of Carbon, Nitrogen, Sulphur and Hydrogen
	Chloride
<b>HAZARDOUS REACTIONS:</b>	Explosion of aerosol can in extreme heat

## TOXICOLOGICAL INFORMATION

**GENERAL:**

No adverse health effects are expected when the product is used in accordance with label directions.

**ACUTE****SWALLOWED:**

The acute oral toxicity is low. Oral LD50 (rat) >40g/kg

**EYE:**

Moderate eye irritant.

**SKIN:**

The acute dermal toxicity is low

**INHALED:**

Inhalation LD50 (rat) = No data available

**CHRONIC:**

Not expected to cause any adverse conditions during normal use.

## ECOLOGICAL INFORMATION

**ECOTOXICITY:** Toxic to aquatic life

**PERSISTENCE AND DEGRADABILITY:** Not persistent in soil or air with a half-life of 7-14 days in soil

**MOBILITY:** Moderate to low mobility in soil with a Koc number ranging from 380 - 770

## DISPOSAL CONSIDERATIONS

Disposal of contaminated material must be done in accordance with State and/or Local regulations.

Dispose of empty containers by wrapping in paper, placing in plastic bag and putting in garbage.

Do not allow chemical containers, spray or washings to contaminate drains, sewers, streams, ponds or any waterway.

## TRANSPORT INFORMATION

Product is /is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

<b>UN NUMBER:</b>	1950
<b>CORRECT SHIPPING NAME:</b>	Aerosols
<b>DANGEROUS GOODS CLASS:</b>	2.1 Flammable Gas
<b>SUB-CLASS:</b>	Not applicable
<b>PACKAGING GROUP:</b>	Not applicable
<b>SPECIAL PRECAUTIONS FOR USER:</b>	Not applicable
<b>HAZCHEM CODE:</b>	2YE

**REGULATORY INFORMATION**

No further information available.

**OTHER INFORMATION****CONTACT POINT**

**TITLE:** Chemist

**TELEPHONE NUMBER:** (08) 9337 4933

**AUTHORISED:** **Technical Department**

**DATE:** **20.01.2010**

**NOTICE:**

This Material Safety Data Sheet has been developed according to the Worksafe Australia/NOHSC Codes of Practice.

The information contained herein is given in good faith however and is considered accurate at the specified issue date. No warranty expressed or implied is made to the accuracy or completeness of the data and information contained herein.

No person, other than an authorised representative of David Gray & Company Pty Ltd, has the authority to alter this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours, or via e-mail <mailto:general@davidgray.com.au>