

# Section 1 - Identification of the Material and Supplier

Amgrow Pty Ltd	Phone: 02 9395 1200 (office hours)	
3/29 Birnie Ave	Fax: 02 4729 3037	
Lidcombe NSW 2141	www.amgrow.com.au	
Chemical nature:	Emulsifiable concentrate containing diclofop-methyl	
Trade Name:	Crowbar Herbicide	
APVMA Code:	66608	
Product Use:	Agricultural herbicide for use as described on the product label.	
Creation Date:	July, 2016	
This version issued:	July, 2016 and is valid for 5 years from this date.	
Poisons Information Centre: Phone 13 1126 from anywhere in Australia		

# Section 2 - Hazards Identification

## Statement of Hazardous Nature

This product is classified as: Xn, Harmful. Xi, Irritating. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg (L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG/IMSBC respectively. See details below and in Section 14 of this SDS.

### SUSMP Classification: S6

**ADG Classification:** Class 9: Miscellaneous Dangerous Goods. **UN Number:** 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



# **GHS Signal word: DANGER**

Flammable liquids Category 4 Acute Toxicity Oral Category 4 Aspiration Hazard Category 2 Skin Sensitisation Category 1 Specific Target Organ Toxicity - Single Exposure Category 3 Hazardous to aquatic environment Short term/Chronic Category 1

#### HAZARD STATEMENT:

H227: Combustible liquid.

AUH066: Repeated exposure may cause skin dryness or cracking.

H302: Harmful if swallowed.

H305: May be harmful if swallowed and enters airways.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H410: Very toxic to aquatic life with long lasting effects.

#### PREVENTION

P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P261: Avoid breathing 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.

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

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing and eye or face protection.

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P285: In case of inadequate ventilation wear respiratory protection.

RESPONSE

P362: Take off contaminated clothing and wash before reuse.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

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

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

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

P391: Collect spillage.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.

## STORAGE

P405: Store locked up.

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 and containers as specified on the registered label.

## **Emergency Overview**

Physical Description & Colour: Clear brown liquid.

#### Odour: Solvent odour.

**Major Health Hazards:** The acute oral  $LD_{50}$  of Diclofop-methyl for rats ranged between 563-693 mg/kg (in sesame oil). The acute dermal  $LD_{50}$  for female rats was greater than 2,000 mg/kg. The no effect level (NEL) for a 90-day feeding to rats was 12.5 mg/kg and 8 mg/kg for a 15-month feeding to dogs. The acute percutaneous  $LD_{50}$  for rats was greater than 5,000 mg/kg. The acute inhalation toxicity for rats exposed to technical diclofop-methyl was greater than 3.83 mg/l/hour. Rats exposed to a formulated product containing diclofop-methyl had an oral  $LD_{50}$  value of greater than 2,000 mg/kg. The acute dermal  $LD_{50}$  for exposure to the same product was greater than 5,000 mg/kg. The inhalation  $LC_{50}$  in rats for a 36%EC formulation of diclofop-methyl over a four-hour period was 8.3 mg/l air. Harmful if swallowed, possible skin sensitiser, if aspirated, may cause lung damage, repeated exposure may cause skin dryness or cracking, vapours may cause drowsiness and dizziness.

## Section 3 - Composition/Information on Ingredients

<b>/</b>				
Ingredients	CAS No	Conc, g/L	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Diclofop-methyl	51338-27-3	375	not set	not set
Hydrocarbon solvent	64742-94-5	551	not set	not set
Other non hazardous ingredients	secret	to 1 L	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value 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. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

# Section 4 - First Aid Measures

## **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. **Skin Contact:** Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

**Eye Contact:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

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# Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards**: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures. **Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam or water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

Flash point:	63.5°C
Upper Flammability Limit:	No data.
Lower Flammability Limit:	No data.
Autoignition temperature:	No data.
Flammability Class:	Flammable Category 4 (GHS), C1 combustible (AS 1940)

# Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include no specific manufacturer recommendations. Use impermeable gloves with care. Eye/face protective equipment should comprise, as a minimum, protective glasses and, preferably, goggles. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

# Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Check packaging - there may be further storage instructions on the label. Keep away from ignition sources such as sparks, heat and flames. Ensure that this product does not come into contact with substances listed as incompatibilities in Section 10.

# Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**. Exposure limits have not been established by SWA for any of the significant ingredients in this product.

SAFETY DATA SHEET



The ADI for Diclofop-methyl is set at 0.002mg/kg/day. The corresponding NOEL is set at 0.25mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. **Ventilation:** If there is a significant chance of vapours or mists accumulating in the area where this product is being used, a local exhaust system should be used.

**Eye Protection:** Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

**Skin Protection:** If you believe you may have a sensitisation to this product or any of its declared ingredients, you should prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

**Protective Material Types:** There is no data that enables us to recommend any type except that it should be impermeable.

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

## Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear brown liquid.
Odour:	Solvent odour.
Boiling Point:	Not available.
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	No data.
Vapour Pressure:	Negligible.
Vapour Density:	No data.
Specific Gravity:	1.090-1.098
Water Solubility:	Emulsifiable.
pH:	4.5-6.5 (1% aqueous mixture)
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	2.81 (pH 5); 1.61 (pH 7) (log P octanol/water)
Autoignition temp:	No data.

## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Keep away from sources of sparks or ignition. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong oxidising agents.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen chloride gas, other compounds of chlorine. Phosgene. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. **Polymerisation:** Polymerisation reactions are unlikely; they are not expected to occur.

## Section 11 - Toxicological Information

**Toxicity:** Acute Toxicity: The acute oral  $LD_{50}$  of Diclofop-methyl for rats ranged between 563-693 mg/kg (in sesame oil). The acute dermal  $LD_{50}$  for female rats was greater than 2,000 mg/kg. The no effect level (NEL) for a 90-day feeding to rats was 12.5 mg/kg and 8 mg/kg for a 15-month feeding to dogs. The acute percutaneous  $LD_{50}$  for rats was greater than 5,000 mg/kg. The acute inhalation toxicity for rats exposed to technical diclofop-methyl was greater than 3.83 mg/L/hour. Rats exposed to a formulated product containing diclofop-methyl had an oral LD50 value of greater than 2,000 mg/kg. The acute dermal  $LD_{50}$  for exposure to the same product was greater than 5,000 mg/kg. The inhalation  $LC_{50}$  in rats for a 36%EC formulation of diclofop-methyl over a four-hour period was 8.3 mg/L air. **Inhalation**: a rate of 4,800 mL of a 5% solution in a 4 cubic meter container for four hours was studied. Deaths occurred with rabbits, but not with rats, guinea pigs or cats at this high rate. The 4-hr LC50 for rats was 8,274 mg/m<sup>3</sup>.

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## SAFETY DATA SHEET

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The acute dermal  $LD_{50}$  for rabbits was reported to be 640 mg/kg. A diclofop-methyl study on rabbits indicated no skin irritation at 24, 48 and 72 hours. Eye irritation in rabbits was found to be zero at 3, 7, or 24 hours. Other studies have reported eye irritation in rabbits as corneal opacity spots and conjunctival irritation in both rinsed and non-rinsed groups. Reversibility was observed in all but one animal in each group at 7 days. A 10% solution produced corneal opacity in some of the animals that was completely reversible in 72 hours. The acute dermal  $LD_{50}$  for rabbits was found to be 640 mg/kg.

**Chronic Toxicity**: In 2-year feeding trials the NEL for rats was 20 mg/kg diet. The 15 month NEL for dogs was 8 mg/kg diet. Repeated absorption of chlorinated diphenyl ethers has resulted in liver damage in animals. **Reproductive Effects**: The NEL in a three-generation study of technical diclofop-methyl in rats was greater than 30 ppm.

**Teratogenic Effects**: In a rat teratology study, the teratogenic No-Observable-Effect-Level (NOEL) was 100 ppm, the highest dose tested. A rabbit teratology study reported a teratogenic NOEL of 3 mg/kg/day, the highest dose tested, and a NOEL for fetotoxicity of 3.0 mg/kg/day.

**Mutagenic Effects**: Ames assay testing revealed no mutagenic effects using four bacterial strains with and without enzyme activation in dose ranges up to 5 milligrams. A micronucleus test in mice indicated no mutagenic effect in a strain with known sensitivity. In a dominant lethal assay, the NOEL was greater than 100 mg/kg. No impairment in fertility of the male mice and no difference in the number of live and dead implantations in the female animals were noted.

Carcinogenic Effects: No information was available.

Organ Toxicity: No information was available.

**Fate in Humans and Animals**: Diclofop-methyl is metabolized in mammals via hydroxylation. Chlorophenoxy compounds are absorbed across the gut wall, lung and skin. They are not significantly stored in fat and urinary excretion is the principal route of elimination. Elimination as a conjugate is within 96 hours. There is no data to hand indicating any particular target organs.

Diclofop-methyl is classed by SWA as a potential sensitiser by skin contact.

### **Classification of Hazardous Ingredients**

 Ingredient
 Risk Phrases

 Diclofop-methyl
 Conc>=25%: Xn; R22; R43

 • Acute toxicity - category 4
 Skin sensitisation - category 1

 • Hazardous to the aquatic environment (acute) - category 1
 Hazardous to the aquatic environment (chronic) - category 1

 • Hazardous to the aquatic environment (chronic) - category 1
 Conc>=10%: Xn; R65

 • Aspiration hazard - category 1

 **Potential Health Effects** 

 Persons sensitised to diclofop-methyl should avoid contact with this product.

## Inhalation:

**Short Term Exposure:** Breathing in high concentrations of vapours or aerosols of this material may cause nausea, headaches and irritation of the nose, throat and respiratory tract. Higher concentrations of vapour can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.

Long Term Exposure: Vapours may cause drowsiness and dizziness.

#### Skin Contact:

**Short Term Exposure:** Classified as a potential sensitiser by skin contact. Exposure to a skin sensitiser, once sensitisation has occurred, may manifest itself as skin rash or inflammation, and in some individuals this reaction can be severe. Product also may be irritating to persons not sensitised to diclofop-methyl.

Long Term Exposure: Repeated exposure may cause skin dryness or cracking.

## Eye Contact:

**Short Term Exposure:** May irritate the eyes, but symptoms are expected to disappear once exposure has ceased. **Long Term Exposure:** No data for health effects associated with long term eye exposure.

## Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful. Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and in-coordination. If aspirated into the lung, e.g. from vomiting, the presence of the solvent may result in chemical pneumonitis or other lung damage.

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## SAFETY DATA SHEET

Phone: 02 9395 1200 (office hours)



Long Term Exposure: No data for health effects associated with long term ingestion.

## **Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

# Section 12 - Ecological Information

Very toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is unlikely to be mobile in soils.

**Effects on Birds**: The acute oral LD<sub>50</sub> to bobwhite quail was 4,400 mg/kg; and greater than 10,000 mg/kg for Japanese quail. The eight-day dietary LC<sub>50</sub> value for coturnix quail was greater than 20,000 ppm; 13,000 ppm for bobwhite quail; and greater than 20,000 ppm for mallard ducks.

**Effects on Aquatic Organisms**: The 96-hour  $LC_{50}$  for technical diclofop-methyl in rainbow trout was 0.35 mg/l water. The 96-hour  $LC_{50}$  in rainbow trout for a formulated product was 1.38 ppm; and 2.60 ppm for carp. The 48-hour  $LC_{50}$  in the crustacean Daphnia for a formulated product was 4.03 ppm.

**Effects on Other Animals (Nontarget species)**: The  $LD_{50}$  for honeybees in a lab test of a formulated product indicated it was nontoxic at the highest dose tested; 48 kg/ha.

### **ENVIRONMENTAL FATE**

**Breakdown of Chemical in Soil and Groundwater**: Under aerobic conditions, diclofop-methyl hydrolyses in a matter of days in the soil to 2-[4-(2',4'-dichlorophenoxy)phenoxy] propanoic acid which in turn is degraded relatively quickly with a half-life of 10 days in sandy soils and about 30 days in sandy clay soils. Small amounts of 4-(2,4 dichlorophenoxy)phenol are also produced. Field studies of application rates up to 3.4 kg active ingredient per hectare showed very low finite residues in soil. At harvest, small finite residues were present in the 0-7.5 cm soil level and rare small residues were present above the 15 cm level. These studies indicate that diclofop-methyl does not leach downward or move laterally, and dissipates quickly in soil.

Breakdown of Chemical in Surface Water: No information was available.

**Breakdown of Chemical in Vegetation**: Diclofop-methyl is absorbed via the leaves and in damp soil there is slight absorption via the roots. The compound inhibits root growth.

**Birds:** LD<sub>50</sub> Japanese quail: >10000mg/kg

Fish: LC<sub>50</sub> rainbow trout (Oncorhynchus mykiss): 0.23mg/L

Algae: EC<sub>50</sub> Scenedesmus subspicatus 1.5mg/L LC<sub>50</sub> Selenastrum capricornutum: 0.53mg/L

Daphnia: EC<sub>50</sub> 0.23mg/L

# Section 13 - Disposal Considerations

**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 http://www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster http://www.drummuster.com.au/ where you will find contact details for your area.

# Section 14 - Transport Information

Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L) or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by Air or Sea transport (see details below).

UN Number: 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Hazchem Code: •3Z Special Provisions: 179, 274, 331, 335, AU01 Limited quantities: ADG 7 specifies a Limited Quantity value of 5 L for this class of product. Dangerous Goods Class: Class 9: Miscellaneous Dangerous Goods. Packing Group: III Packing Instruction: P001, IBC03, LP01

Class 9 Miscellaneous Dangerous Goods shall not be loaded in the same vehicle or packed in the same freight container with Dangerous Goods of Class 1 (Explosives).

# Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

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The following ingredient: Diclofop-methyl, is mentioned in the SUSMP.

## Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:	
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency
	services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number
TO SAFELY HANDLE AND USE	EST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW
	ED AND USED IN THE WORKPLACE.
	R INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS
OUR RESPONSIBILITY FOR PRO	ODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT A SO AVAILABLE ON REQUEST

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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