# **Diclofop-methyl**

# sc-239706

# **Material Safety Data Sheet**



The Power to Ownsid

Hazard Alert Code Key:

EXTREME

HIGH

MODERATE

LOW

# Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **PRODUCT NAME**

Diclofop-methyl

# STATEMENT OF HAZARDOUS NATURE

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.



## **SUPPLIER**

Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800

# **EMERGENCY**

ChemWatch

Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

# **SYNONYMS**

C16-H14-Cl2-O4, "2-[4-(2, 4-dichlorophenoxy)phenoxy]-methyl-propionate", "2-[4-(2, 4-dichlorophenoxy)phenoxy] propanoic acid methyl ester", "methyl 2-[4-(2, 4-dichlorophenoxy)phenoxy]propionate", "dichlofos/ dichlophos/ diclophos methyl (sic)", "Hoe 23408", Hoegrass, Hoelon, "Hoelon 3EC", Illoxan, Iloxan, herbicide

# **Section 2 - HAZARDS IDENTIFICATION**

## **CHEMWATCH HAZARD RATINGS**

		Min	Max
Flammability	1		
Toxicity	2		M. AV. O
Body Contact	2		Min/Nil=0 Low=1
Reactivity	1		Moderate=2
Chronic	2		High=3 Extreme=4

## **CANADIAN WHMIS SYMBOLS**





# EMERGENCY OVERVIEW RISK

May cause SENSITISATION by skin contact.

Limited evidence of a carcinogenic effect.

Harmful by inhalation, in contact with skin and if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **POTENTIAL HEALTH EFFECTS**

## **ACUTE HEALTH EFFECTS**

# **SWALLOWED**

- Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
- Chlorphenoxy compounds irritate the digestive system and cause nausea and vomiting, chest pain, and diarrhoea.

Taking large doses can result in mineral imbalance, temperature changes, hyperventilation, low blood pressure, dilated blood vessels, damage to the heart and liver with death of white blood cells, and convulsions.

#### EYE

- There is some evidence to suggest that this material can cause eye irritation and damage in some persons.
- Corneal injury resulting from 2,4-D exposure may be slow to heal.

#### SKIN

- Skin contact with the material may be harmful; systemic effects may result following absorption.
- There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.
- Open cuts, abraded or irritated skin should not be exposed to this material.
- Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.

Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

■ 2.4-D and its derivatives can all be absorbed through the skin of humans.

Severe peripheral neuropathy has followed causing limb paralysis and loss of sensation.

■ Chlorinated diphenyl ethers may produce skin irritation; systemic toxicity may occur following absorption.

## **INHALED**

- Inhalation of vapours, aerosols (mists, fumes) or dusts, generated by the material during the course of normal handling, may be harmful.
- There is some evidence to suggest that the material can cause respiratory irritation in some persons.

The body's response to such irritation can cause further lung damage.

■ Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.

■ Inhalation of chlorophenoxy dusts or mists may result in sore throat, burning sensations in the throat and chest, cough, tears, inflamed nose, dizziness and inco-ordination, as a result of absorption from the lungs.

## **CHRONIC HEALTH EFFECTS**

■ There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray.

Prolonged contact with chlorinated diphenyl ethers may cause skin irritation, weight loss and liver injury. Repeated absorption has produced liver damage in animals.

Chlorophenoxy herbicides cause an increased risk of cancers of soft tissue, lymph and bronchi. Inflammation of skin can result from long term contact. Chronic exposure to 2,4-D can cause nausea, liver changes, skin eruptions, irritation of the airways and eyes, as well as nervous changes. People with chronic health conditions or who have endocrinological or immune disorders should not be exposed to herbicides.

No observable effects were noted at 20 ppm in a two-year rat study or at 8 ppm in a 15-month dog study. A significant increase in liver neoplasms was observed in mice receiving 2.5 mg/kg/day.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS				
NAME	CAS RN	%		
diclofop-methyl	51338-27-3	100		

# **Section 4 - FIRST AID MEASURES**

# **SWALLOWED**

- IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
- For advice, contact a Poisons Information Centre or a doctor.
- Urgent hospital treatment is likely to be needed.
- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.

#### **EYE**

If this product comes in contact with the eyes

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

#### SKIN

If skin contact occurs

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

#### **INHALED**

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- If dust is inhaled, remove from contaminated area.
- Encourage patient to blow nose to ensure clear breathing passages.
- Ask patient to rinse mouth with water but to not drink water.
- Seek immediate medical attention.

# **NOTES TO PHYSICIAN**

- Following exposures to chlorophenoxy compounds
- Acute toxic reactions are rare. The by-product of production, dioxin, may be implicated in subacute features such as hepatic enlargement, chloracne, neuromuscular symptoms and deranged porphyrin metabolism.
- Large intentional overdoses result in coma, metabolic acidosis, myalgias, muscle weakness, elevated serum

creatine kinase, myoglobinuria, irritation of the skin, eyes, respiratory tract and gut and mild renal and hepatic dysfunction.

- Several cases of sensorimotor peripheral neuropathies have been associated with chronic dermal exposure to 2,4-D. For acute exposures the usual methods of gut and skin contamination (lavage, charcoal, cathartic) are recommended in the first several hours. Alkalisation of the urine and generous fluid replacement have the added benefit of treating any myoglobinuria present. Monitor metabolic acidosis, hyperthermia, hyperkalaemia, myoglobinuria and hepatic/renal dysfunction. for 2,4-dichlorophenoxyacetic acid (2,4-D) and its derivatives
- Gastric lavage if there are no signs of impending convulsions.

In rats, dichlofop-methyl is almost totally absorbed and then rapidly excreted. About 90% was recovered in faeces and urine after 2days and 99% after 7 days. Accumulation of residues in the body is unlikely; low levels of residual residues ar found in organs and tissues seven days after a single administration of 1.8 mg/kg b.w. Metabolism first produces the free acid then an isomeric mixture of hydrolysed free acids and their conjugates with glucuronic and sulfuric acid and then dichlorophenoxyphenol.

Section 5 - FIRE FIGHTING MEASURES			
Vapour Pressure (mmHG)	Negligible		
Upper Explosive Limit (%)	Not available		
Specific Gravity (water=1)	1.3		
Lower Explosive Limit (%)	Not available		

#### **EXTINGUISHING MEDIA**

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

#### **FIRE FIGHTING**

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use water delivered as a fine spray to control fire and cool adjacent area.

When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 100 metres in all directions.

# GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS

- Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.
- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an
  explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust
  clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420
  micron or less) may burn rapidly and fiercely if ignited particles exceeding this limit will generally not form
  flammable dust clouds.; once initiated, however, larger particles up to 1400 microns diameter will contribute to
  the propagation of an explosion.
- In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of
  concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL).are
  applicable to dust clouds but only the LEL is of practical use; this is because of the inherent difficulty of
  achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum
  Explosible Concentration", MEC)
- A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.

Combustion products include carbon monoxide (CO), carbon dioxide (CO2), hydrogen chloride, phosgene, other pyrolysis products typical of burning organic material.

## FIRE INCOMPATIBILITY

 Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

## MINOR SPILLS

- Clean up waste regularly and abnormal spills immediately.
- Avoid breathing dust and contact with skin and eyes.
- Wear protective clothing, gloves, safety glasses and dust respirator.
- Use dry clean up procedures and avoid generating dust.

Environmental hazard - contain spillage.

## **MAJOR SPILLS**

Environmental hazard - contain spillage.

Moderate hazard.

- CAUTION Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.
- Control personal contact by wearing protective clothing.
- Prevent, by any means available, spillage from entering drains or water courses.

## Section 7 - HANDLING AND STORAGE

## PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

- Do NOT cut, drill, grind or weld such containers.
- In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

# **RECOMMENDED STORAGE METHODS**

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

# STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.

# Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

## **EXPOSURE CONTROLS**

Source	Material	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³	Peak ppm	Peak mg/m³	TWA F/CC	Notes
Canada - Ontario Occupational Exposure Limits	diclofop-methyl (Particles (Insoluble or Poorly Soluble) Not Otherwise)		10 (I)						

Canada - British Columbia Occupational Exposure Limits	diclofop-methyl (Particles (Insoluble or Poorly Soluble) Not Otherwise Classified (PNOC))	10 (N)	
Canada - Ontario Occupational Exposure Limits	diclofop-methyl (Specified (PNOS) / Particules (insolubles ou peu solubles) non précisées par ailleurs)	3 (R)	
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	diclofop-methyl (Particulates not otherwise regulated Respirable fraction)	5	
US - California Permissible Exposure Limits for Chemical Contaminants	diclofop-methyl (Particulates not otherwise regulated Respirable fraction)	5	(n)
US - Oregon Permissible Exposure Limits (Z-1)	diclofop-methyl (Particulates not otherwise - regulated (PNOR) (f) Total Dust)	10	Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the federal Limits. PNOR means "particles not otherwise regulated."
US - Michigan Exposure Limits for Air Contaminants	diclofop-methyl (Particulates not otherwise regulated, Respirable dust)	5	
US - Oregon Permissible Exposure Limits (Z-1)	diclofop-methyl (Particulates not otherwise regulated (PNOR) (f) Respirable Fraction)	5	Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the federal Limits. PNOR means "particles not otherwise regulated."
US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air	diclofop-methyl (Particulates not otherwise regulated (PNOR)(f)-	5	

# PERSONAL PROTECTION



## **RESPIRATOR**

•Particulate. (AS/NZS 1716 & 1715, EN 1432000 & 1492001, ANSI Z88 or national equivalent)

## **EYE**

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

#### HANDS/FEET

- Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber

## NOTE

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing
  gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include
- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

# **OTHER**

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.

## **ENGINEERING CONTROLS**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

# **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

# **PHYSICAL PROPERTIES**

Solid.

Does not mix with water.

Sinks in water.

State	Divided solid	Molecular Weight	341.19
Melting Range (°F)	102- 106	Viscosity	Not Applicable
Boiling Range (°F)	347- 351	Solubility in water (g/L)	Immiscible
Flash Point (°F)	Not available	pH (1% solution)	Not applicable
Decomposition Temp (°F)	Not available.	pH (as supplied)	Not applicable
Autoignition Temp (°F)	Not available	Vapour Pressure (mmHG)	Negligible
Upper Explosive Limit (%)	Not available	Specific Gravity (water=1)	1.3
Lower Explosive Limit (%)	Not available	Relative Vapour Density (air=1)	>1
Volatile Component (%vol)	Negligible	Evaporation Rate	Not applicable

# **APPEARANCE**

Crystalline solid, practically insoluble in water (0.8 mg/l, pH 5,7, 20 C). Soluble in acetone, dichloromethane, dimethyl sulfoxide, ethyl acetate, ethanol, xylene., toluene (all >500 g/l). Other solubilities (g/l, 20 C) polyethylene glycol 148, methanol 120, isopropanol 51, n-hexane 50. Stable to light. In water DT50 (25 C) 363 d (pH 5), 31.7 d (pH 7), 0.52 d (pH 9).

# **Section 10 - CHEMICAL STABILITY**

# CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

## STORAGE INCOMPATIBILITY

Avoid reaction with oxidising agents

For incompatible materials - refer to Section 7 - Handling and Storage.

# Section 11 - TOXICOLOGICAL INFORMATION

diclofop-methyl

# TOXICITY AND IRRITATION DICLOFOP-METHYL

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances. [\* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council].

#### **CARCINOGEN**

Chlorophenoxy herbicides	International Agency for Research on Cancer (IARC Agents Reviewed by the IARC Monographs	C) - Group 2B
DICLOFOP METHYL	US Environmental Defense Scorecard Suspected Carcinogens	Reference(s) OPP-CAN
CHLOROPHENOXY HERBICIDES	US Environmental Defense Scorecard Suspected Carcinogens	Reference(s) IARC
VPVB_(VERY~	US - Maine Chemicals of High Concern List	Carcinogen
REPROTOXIN		
diclofop-methyl US - Cal	ifornia Proposition 65 - Reproductive Toxicity	NSRL or MADL (µg/day)

# **Section 12 - ECOLOGICAL INFORMATION**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment.

Refer to special instructions/ safety data sheets.

#### Section 13 - DISPOSAL CONSIDERATIONS

# **US EPA Waste Number & Descriptions**

B. Component Waste Numbers

When diclofop-methyl is present as a solid waste as a discarded commercial chemical product, off-specification species, as a container residue, or a spill residue, use EPA waste number U240 (waste code T).

For discarded unused formulations containing diclofop-methyl use hazardous waste number F027

When diclofop-methyl is present as a solid waste as a discarded commercial chemical product, off-specification species, as a container residue, or a spill residue, use EPA waste number U240 (waste code T).

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# **Disposal Instructions**

All waste must be handled in accordance with local, state and federal regulations.

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

## Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill
- Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered
  first
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or

Incineration in a licenced apparatus (after admixture with suitable combustible material)

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

# **Section 14 - TRANSPORTATION INFORMATION**



# DOT:

Symbols:	G	Hazard class or Division:	9	
Identification Numbers:	UN3077	PG:	III	
Label Codes:	9	Special provisions:	8, 146, 335, B54, IB8, IP3, N20, T1, TP33	
Packaging: Exceptions:	155	Packaging: Non-bulk:	213	
Packaging: Exceptions:	155	Quantity limitations: Passenger aircraft/rail:	No limit	
Quantity Limitations: Cargo aircraft only:	No limit	Vessel stowage: Location:	A	
Vessel stowage: Other:	None	S.M.P.:	Severe	
Hazardous materials descriptions and proper shipping names:				

Environmentally hazardous substance, solid, n.o.s

# **Air Transport IATA:**

ICAO/IATA Class:	9	ICAO/IATA Subrisk:	None
UN/ID Number:	3077	Packing Group:	III
Special provisions:	A97		
Cargo Only			
Packing Instructions:	956	Maximum Qty/Pack:	400 kg
Passenger and Cargo		Passenger and Cargo	
Packing Instructions:	956	Maximum Qty/Pack:	400 kg
Passenger and Cargo Limited Quantity		Passenger and Cargo Limited Quantity	
Packing Instructions:	Y956	Maximum Qty/Pack:	30 kg G

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. \*(CONTAINS DICLOFOP-METHYL)

# **Maritime Transport IMDG:**

IMDG Class:	9	IMDG Subrisk:	None	
UN Number:	3077	Packing Group:	III	
EMS Number:	F-A,S-F	Special provisions:	274 335	
Limited Quantities:	5 kg	Marine Pollutant:	Yes	

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(contains diclofop-methyl)

# **Section 15 - REGULATORY INFORMATION**

ddiclofop-methyl (CAS: 51338-27-3,71283-65-3,75021-72-6) is found on the following regulatory lists; "Canada - Saskatchewan Industrial Hazardous Substances", "Canada Environmental Quality Guidelines (EQGs) Water: Aquatic life", "Canada Environmental Quality Guidelines (EQGs) Water: Community", "International Maritime Dangerous Goods Requirements (IMDG Code) - Marine Pollutants", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "US - California Proposition 65 - Priority List for the Development of MADLs for Chemicals Causing Reproductive Toxicity", "US - Delaware Pollutant Discharge Requirements - Reportable Quantities", "US - Maine Chemicals of High Concern List", "US Department of Transportation (DOT) Marine Pollutants - Appendix B", "US EPCRA Section 313 Chemical List"

# **Section 16 - OTHER INFORMATION**

## LIMITED EVIDENCE

- Cumulative effects may result following exposure\*.
- May produce discomfort of the eyes, respiratory tract and skin\*.
- \* (limited evidence).

#### Ingredients with multiple CAS Nos

Ingredient Name diclofop-methyl

CAS

51338-27-3, 71283-65-3, 75021-72-6

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- Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.
- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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