

VITAX SAFETY INFORMATION SHEET

Date of Issue: May 2006

Revision: June 2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Name of Product: VITAX LAWNCLEAR 2

Use of the Substance/Preparation: Selective herbicide

Manufacturer/Distributor: Vitax Limited
Owen Street
Coalville
LE67 3DE UK
Tel: +44(0) 1530 510060 Fax: +44(0) 1530 510299 Email: tech@vitax.co.uk

Emergency Contact: Tel: +44(0) 1530 510060 (Office Hours)

2. HAZARDS IDENTIFICATION

Classification: Not classified as dangerous.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type:	Soluble concentrate containing:				
	INGREDIENT	% w/w	CLASSIFICATION	CAS NO	EC NO
	Clopyralid	6.3 g/l	Xi; R41, N; R51/53	001702-17-6	216-935-4
	2,4-D Acid	27.0 g/l	Xn; R22-37-41-43-52/53	94-75-7	202-361-1
	MCPA	31.5 g/l	Xn; R22-38-41	000094-74-6	202-360-6

4. FIRST AID MEASURES

Skin Contact: Essentially non-irritating to the skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Wash skin thoroughly with soap and water and launder clothing before re-use or dispose of properly.

Eye Contact: May cause irritation. Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.

Ingestion: Low toxicity if swallowed. Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made by a physician.

Inhalation: Remove to fresh air. No adverse effects anticipated by this route of exposure incidental to proper handling.

General Advice: In case of accident or if you feel unwell seek medical advice immediately (show label where possible).
Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Advice to Doctors: No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient. Additional medical guidance is available to doctors from the National Poisons Information Service.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water fog or fine spray. Carbon dioxide. Dry chemical fire extinguishers. Foam.

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Special Protective Equipment: Wear protective clothing and use self-contained breathing apparatus.

VITAX SAFETY INFORMATION SHEET

Date of Issue: May 2006

Revision: June 2009

Additional Information:	Keep containers cool by spraying with water. Contain run-off to prevent entry into water or drainage systems.
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate safety clothing and eye/face protection (See EXPOSURE CONTROLS/PERSONAL PROTECTION).
Environmental precautions:	Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.
Spillages:	Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

7. HANDLING & STORAGE

Handling:	Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid contact with eyes.
Storage:	Product should be stored in compliance with local regulations. Store in a cool, dry, well ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure guidelines:	Clopyralid: Dow AgroSciences IHG is 10mg/m ³ . 2,4-D: ACGIH Threshold Limit Value (TLV) is 10mg/m ³ TWA 8 hours. MCPA: Dow AgroSciences IHG is 5mg/m ³ .
Engineering controls:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Respiratory protection:	When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air purifying respirator. For emergency conditions, use an approved positive pressure self contained breathing apparatus.
Hand/skin protection:	Wear clean, long sleeved, body covering clothing. Use gloves chemicals resistant to this material when prolonged or frequently repeated contact could occur. For emergency conditions: use protective clothing impervious to this material.
Eye/face protection:	Use chemical goggles.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	pale brown clear liquid
pH	7.5-8.5
Relative density (water=1)	1.00 g/cm ³ (approx)
Flash point	none
Water solubility	miscible
Other data	none

10. STABILITY & REACTIVITY

Stability:	Stable under normal conditions
Conditions to Avoid:	Avoid extremes of temperature.
Materials to Avoid:	Strong basic, acidic or oxidising materials.
Hazardous Decomposition Products:	None under normal conditions of storage and use.

VITAX SAFETY INFORMATION SHEET

Date of Issue: May 2006

Revision: June 2009

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Based on data for similar formulation: Oral LD50 (rat) >2000mg/kg. Dermal LD50 (rat) >2000mg/kg.
Skin Irritancy:	Not irritating.
Skin sensitisation:	Not sensitising.

12. ECOLOGICAL INFORMATION

Aquatic toxicity:	Based on data for the formulation. Material is not harmful to fish on an acute basis (LC50>100mg/l) Material is not harmful to invertebrates on an acute bases (EC50>100mg/l) Material is not harmful to algae (IC50>100mg/l).
Avian toxicity:	Assessment largely or completely based on data for active ingredient. Clopyralid: material is slightly toxic to birds on an acute basis (500mg/kg <LD50<2000mg/kg) 2,4-D: : material is slightly toxic to birds on an acute basis (500mg/kg <LD50<2000mg/kg) MCPA: material is moderately toxic to birds on an acute basis (50mg/kg <LD50<500mg/kg)
Persistence and degradability:	Assessment largely or completely based on data for active ingredient. Clopyralid: the principle route of degradation is microbial and will occur readily. Half-life in soils is dependant on soil type and conditions and is approximately 12-62 days. 2,4-D: half-life in soils is dependant in soil type and conditions and is approximately 5-15 days. MCPA: half-life in soils is dependant in soil type and conditions and is approximately 7-24 days.
Other information:	Clopyralid: non-toxic to bees 2,4-D: non-toxic to bees MCPA: non-toxic to bees

13. DISPOSAL CONSIDERATIONS

Packaging/Unused product:	Do not contaminate ponds, waterways or ditches with chemicals or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.
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14. TRANSPORT INFORMATION

Transport/Further Information:	Product is not classified for any mode of transport. Sample shipment not allowed by mail.
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15. REGULATORY INFORMATION

Hazard Symbol:	None. Not classified as hazardous
Risk Phrases:	None.
Safety Phrases:	S35 - This material and its container must be disposed of in a safe way. Refer to product label for full Regulatory Authority label precautions.

16. OTHER INFORMATION

Risk phrases in Section 3

VITAX SAFETY INFORMATION SHEET

Date of Issue: May 2006

Revision: June 2009

R22: Harmful if swallowed

R37: Irritating to respiratory system

R38: Irritating to skin

R41: Risk of serious damage to eyes

R43: May cause sensitisation by skin contact

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information contained in this sheet is based on the best available information, including data from test results.

Prepared in accordance with directive 1999/45/EC and subsequent amendments modified by directive 2006/08/EC, taking account the directive 67/548/EC (Dangerous substances) modified by directive 2004/73/EC and Regulation 1907/2006/EC (REACH).