

# VITAX SAFETY INFORMATION SHEET

Date of Issue: February 2004

Revision: June 2009

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

**Name of Product:** NEW ESTERMONE

**Use of the Substance/Preparation:** Selective weedkiller

**Manufacturer/Distributor:** Vitax Limited  
Owen Street  
Coalville  
LE67 3DE Tel: 01530 510060 Fax: 01530 510299 Email: tech@vitax.co.uk

**Emergency Contact:** Tel: 01530 510060 (Office Hours)

## 2. HAZARDS IDENTIFICATION

**Classification:** **May cause sensitisation by skin contact. Irritating to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**  
Contains aromatic hydrocarbon solvent. May cause lung damage if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type:	Emulsifiable concentrate containing:				
	INGREDIENT	% w/w	CLASSIFICATION	CAS NO	EC NO
	2,4-D (ethyl hexyl ester)	19.8	Xn R22, 43, 50/53	001928-43-4	217-673-3
	Dicamba	3.5	Xn R22, 41, 52/53	001918-00-9	217-635-6
	Aromatic hydrocarbon distillate	56	Xn R65	064742-94-5 091770-15-9	265-198-5

## 4. FIRST AID MEASURES

**Skin Contact:** Accidental over exposure may result in the following symptoms:  
prolonged skin contact may give rise to degreasing and subsequent irritation. **May cause sensitisation by skin contact.**

**Eye Contact:** irritation.

**Ingestion:** may cause burning of oral mucosa, hypersalivation, stomach cramps, nausea and diarrhoea.

**Inhalation:** high levels of solvent vapour may result in irritation to respiratory tract, headaches and nausea.

Additional medical guidance is available to doctors from the National Poisons Information Service.

Eye contact – irrigate with water thoroughly. If irritation persists, seek medical aid.  
Skin contact – wash with soap and water. Remove and wash contaminated clothing.  
Ingestion – wash out mouth with water and seek medical advice immediately. Do not induce vomiting.  
Inhalation – remove to fresh air. Seek medical aid if symptoms persist.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Not classified as flammable.  
Keep containers cool with water spray. Extinguish, preferably with foam, dry powder or water spray.

**Additional Information:** In intense heat, product decomposition will release toxic fumes.

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**Special Protective Equipment:** Wear self-contained breathing apparatus in confined spaces. Contain contaminated run-off.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** When dealing with spillage wear protective gloves, boots and overalls. Do not breathe vapour. Do not eat, drink or smoke. Wash hands and exposed skin after handling.

**Environmental precautions:** Report to local water plc immediately if spillage enters drains and the Environment Agency or Scottish Environment Protective Agency if it enters surface or ground waters.

**Spillages:** Soak up with absorbent material such as sand and transfer to suitable marked container, and keep safe before disposal.

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## 7. HANDLING & STORAGE

**Handling:** Do not block stack pallets.

**Storage:** Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from insecticides, fungicides and fertilisers. Make arrangements for containment of accidental spillage.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure standards (EH40) for 2,4-D in air: 10 mg/m<sup>3</sup> (8 hr) 20 mg/m<sup>3</sup> (15 min). OEL recommended for solvent 5 mg/m<sup>3</sup>. Personal protective equipment recommended where engineering control of operator exposure is impractical: faceshield, chemical resistant gloves, rubber boots (when applying by hand-held equipment or clearing spillages) and coveralls.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	oily liquid forming emulsion with water
Autoflammability	> 400 deg C
Odour	strong aromatic
Boiling point	200-265 deg C (for solvent)
Explosion limits	0.6-6.0% (for solvent)
Flash point	> 70 deg C
Flammability	combustible
Kinetic viscosity	3.863 x 10 <sup>-6</sup> m <sup>2</sup> /s @ 40 deg C
Melting point	not determined
Oxidising properties	N/A
<b>pH (1%)</b>	<b>4</b>
Relative density	1.01 at 20 deg C
Solubility	miscible in water
Surface tension	33.1 mN/m @ 25° deg C
Vapour pressure	not determined
Other data	none

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## 10. STABILITY & REACTIVITY

**Stability:** stable under ambient conditions.

**Conditions to Avoid:** avoid high temperatures - not classified as flammable but will burn if involved in a fire producing toxic fumes.

**Materials to Avoid:**

**Hazardous Decomposition Products:** not classified as flammable but will burn if involved in a fire producing toxic fumes.

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- 11. TOXICOLOGICAL INFORMATION** LD50 acute oral rat > 2000 mg/kg (by calculation)  
Suspected eye irritant.
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- 12. ECOLOGICAL INFORMATION** Harmful to fish or aquatic life. Do not contaminate surface waters or ditches with chemical or used container.
- Ecotoxicity  
2,4-D-2EH LC50/96hr/rainbow trout 7.2mg/L  
dicamba LC50/96hr/rainbow trout 7.2mg/L  
LC50/48h/daphnia=110 mg/L
- Mobility  
2,4-D-2EH Fairly mobile but rapidly degraded in aerobic soils  
dicamba no data available
- Persistence & degradability  
2,4-D rapidly degraded in aerobic soils (aerobic ½ life approx 6 days)  
dicamba moderate/slow biodegradation in water. Rapidly degraded in aerobic soils (aerobic half-life < 14 days)
- Bioaccumulation  
2,4-D-2EH Rapidly hydrolyses to 2,4-D. For 2,4-D potential for bioaccumulation low based on Log Pow  
dicamba Potential for bioaccumulation is low based on Log Pow (-0.15 @ pH 7)
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- 13. DISPOSAL CONSIDERATIONS** Dispose of waste through a reputable waste disposal contractor.
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- 14. TRANSPORT INFORMATION** ADR: Not classified as dangerous
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- 15. REGULATORY INFORMATION** Safety phrasing outline below has been assigned with the Chemicals (Hazard Information and Packaging for Supply) Regulations.
- R36 Irritating 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.**  
**S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**  
**S35 This material and its container must be disposed of in a safe way.**  
**S57 Use appropriate containment to avoid environmental contamination**  
**S36/37 Wear suitable protective clothing and gloves**
- Occupational Exposure Standards in air for 2,4-D 10 mg/m<sup>3</sup>(8 hr), 20 mg/m<sup>3</sup> (15 mins). OEL recommended for solvent 5 mg/m<sup>3</sup>.
- The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.
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- 16. OTHER INFORMATION** The hydrocarbon solvent blend used in this formulation contains less than 0.1% w/w benzene.
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The product surface tension exceeds the maximum level for classification as Xn, R65.

The product label provides information on a specific pesticidal use of the product: do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'off-label- approval or is otherwise permitted under the Control of Pesticides Regulations.

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

The classification of this preparation was carried out 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 (EC) 1907/2006 (REACH).