

VITAX SAFETY INFORMATION SHEET

IDENTIFICATION OF PREPARATION **ESTEEM**

Packaging: 2 litre PET bottle

AND COMPANY

Vitax Ltd, Owen Street, Coalville LE67 3DE Tel: 01530 510060

COMPOSITION

INGREDIENT	% w/w	CLASSIFICATION	CAS NO	EC NO
Clopyralid	35 g/l	Xi; R41, N; R51/53	001702-17-6	216-935-4
2,4-D Acid	150 g/l	Xn; R22-37-41-43-52/53	94-75-7	202-361-1
MCPA	175 g/l	Xn; R22-38-41	000094-74-6	202-360-6

HAZARDS IDENTIFICATION

Harmful if swallowed. Irritating to respiratory system. Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

FIRST AID MEASURES

Accidental over exposure may result in the following symptoms:-

Skin Contact - prolonged skin contact is unlikely to result in absorption of harmful amounts. Essentially non-irritating to the skin.

Eye Contact - may cause severe irritation with corneal injury.

Ingestion - moderate toxicity if swallowed.

Inhalation - no adverse effects anticipated by this route of exposure incidental to proper handling.

In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

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

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation - remove to fresh air. Consult a physician.

Eye Contact - 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.

Skin Contact - wash skin thorough with soap and water.

Ingestion - 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.

Note to Physician - no specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

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.

Additional Information: keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

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.

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.

EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Guidelines:

Clopyralid: Dow AgroSciences IHG is 10mg/m³.

2,4-D: ACGIH Threshold Limit Value (TLV) is 10mg/m³ TWA 8 hours.

MCPA: Dow AgroSciences IHG is 5mg/m³.

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 chemically 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.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	dark brown clear liquid
pH	7.5-8.5
Relative density (water=1)	1.12 g/cm ³ (approx)
Flash point	none
Water solubility	miscible
Other data	none

STABILITY & REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: avoid extremes of temperature.

Materials to avoid: strong basic, acidic or oxidizing materials.

Hazardous decomposition products: none under normal conditions of storage and use.

TOXICOLOGICAL INFORMATION

Ingestion: the estimated oral LD50 for rats is >1000mg/kg <2000mg/kg.

Skin Contact: the estimated dermal LD50 for rats is >2000mg/kg.

Sensitisation: non-sensitising to guinea pig skin.

ECOLOGICAL INFORMATION

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 dependent on soil type and conditions and is approximately 12-62 days.

2,4-D: half-life in soils is dependent on soil type and conditions and is approximately 5-15 days.

MCPA: half-life in soils is dependent on soil type and conditions and is approximately 7-24 days.

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 aquatic invertebrates on an acute basis (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).

Other Information

Clopyralid: non-toxic to bees.

2,4-D: non-toxic to bees.

MCPA: non-toxic to bees.

DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical 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.

TRANSPORT INFORMATION

Road & Rail

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-4,D).

Truck/Rail ADR/RID	:	9	Packing Group	:	III
Classification Code	:	M6	Label	:	9
Kemler Code	:	90	UN Number	:	3082
Tremcard Nr CEFIC	:	90GM6-III			

Sea

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-4,D).

Sea - IMO/IMDG Class	:	9	Packing Group	:	III
EMS	:	F-AS-F	Label	:	9
Marine Pollutant	:	Y (Y/N)	UN Number	:	3082

Air

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-4,D).

Air-ICAO/IATA Class	:	9	Packing Group	:	III
Sub Class	:		Label	:	9
Pack Instr. Passenger	:	914	UN Number	:	3082
Pack Instr. Cargo	:	914			

Remarks : Sample shipment not allowed by rail.

REGULATORY INFORMATION

Hazard Symbol: Xn - Harmful

Risk Phrases: Harmful if swallowed (R22)

Irritating to respiratory system (R37).

Risk of serious damage to eyes (R41).

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R52/63).

Safety Phrases: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26).

This material and its container must be disposed of in a safe way (S35).

Wear eye/face protection (S39)

Refer to the Product Label for full local Regulatory Authority label precautions.

OTHER INFORMATION

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.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

November 2005