VITAX GREENHOUSE FUMIGATOR

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Date of Issue: 07/05/2015 Revision: 21/10/2015

1.2. Relevant identified uses of the substance or mixture and uses advised against **Identified uses** Insecticide Uses advised against No specific uses advised against are identified. **1.3.** Details of the supplier of the safety data sheet Supplier Vitax Ltd, Owen Street, Coalville, Leics LE67 3DE United Kingdom Tel: 01530 510060 1.4. Emergency telephone number Emergency telephone +44 (0) 1530 510060 (Monday to Friday 9:00-17:00 GMT) **SECTION 2: HAZARDS IDENTIFICATION** 2.1. Classification of the substance or mixture Classification Physical hazards Ox. Sol. 3 - H272 Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Sens. 1 - H317 Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Human health May be harmful if swallowed or inhaled, may cause an allergic skin reaction. Environmental The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Product burns without a flame to give a dense white harmful smoke. Physicochemical 2.2. Label elements Pictogram Signal word Warning Hazard statements H272 May intensify fire; oxidiser. H302+H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition Precautionary statements sources. No smoking. P220 Keep away from combustible materials. P261 Avoid breathing vapour/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P501 Dispose of contents/container in accordance with national regulations. P102 Keep out of reach of children. Contains POTASSIUM CHLORATE, PERMETHRIN 2.3. Other hazards Not known SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

1.1. Product identifier

J.2. WIXtures				
Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s) and Phrases	Concentration [%]
POTASSIUM CHLORATE 10-30%	3811-04-9 223-289-7	N/A	Ox. Sol 1 – H271 Acute Tox. 4 - H302, H332 Aquatic chronic 2 - H411	10-30%
PERMETHRIN	052645-53-1 258-067-9		Acute Tox. 4 - H302, H312, H332 Aquatic acute 1 - H400 Skin Sens 1 - H317 Aquatic chronic 2 - H410 M factor (Acute) = 1000 M factor (Chronic) = 1000	10-30%

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES 4.1 Description of first aid measu

4.1. Description of first aid measures	
General information	Remove affected person from source of contamination. Remove contaminated
	clothing immediately and dispose of safely.
Inhalation	Remove affected person from source of contamination. Move affected person to
	fresh air and keep warm and at rest in a position comfortable for breathing. Get
	medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical
-	attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
	Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open
	eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention
	immediately. Continue to rinse.
4.2. Most important symptoms and ef	fects, both acute and delayed
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4.3. Indication of any immediate medical attention and special treatment needed

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Notes for the doctor	This product contains a Pyrethoid, and MUST NOT be confused with
	organophosphorus compounds.

SECTION 5: FIREFIGHTING MEASURES

Storage precautions

5.1. Extinguishing media	5
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
6 6	Do not use high volume water jet.
Unsuitable extinguishing media	High volume water jet.
5.2. Special hazards arising from the	
Specific hazards	In case of fire the evolution of dangerous gases is possible. Contains potassium chlorate which is classified as an oxidising agent. This will assist combustion in a fire situation.
Hazardous combustion products 5.3. Advice for firefighters	Does not decompose when used and stored as recommended.
Protective actions during firefighting	Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water. Contain and collect extinguishing water.
Special protective equipment for firefig	hters
	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: ACCIDENTAL RELEASE M	
	equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
6.2. Environmental precautions	
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	Avoid contact with skin or inhalation of spillage, dust or vapour. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Avoid the spillage or runoff entering drains, sewers or watercourses.
6.4. Reference to other sections	N/a
SECTION 7: HANDLING AND STORAGE	E
7.1. Precautions for safe handling	
Usage precautions	Read and follow manufacturer's recommendations. Avoid inhalation of dust and contact with skin and eyes. Do not eat, drink or smoke when using the product.
7.2. Conditions for safe storage, inclu	ding any incompatibilities

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly closed, original container in a dry and cool place. Keep away from heat, sparks and open flame.

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chemically stable for at least 2 years when stored in the original, unopened containers at ambient temperatures. 7.3. Specific end use(s) Specific end use(s) The identified uses for this product are detailed in Section 1.2. Pesticide smoke generator. SICTION 3: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. Control parameters 7.4.C 7.4.C Large term exposure limits 7.4.C 7.4.C Large term exposure limit (8-hour TWA): 1 mg/m ² Ingredient comments When using this product, refer to the label for details. Should it be necessary to enter the treated area whilds smoke remains in the atmosphere, registratory protective equipment Eyeface protection 8.2. Exposure controls Protective equipment Eyeface protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact. Hygiene measures Wash contaminated clothing before reuse. Wash hands at the end of each work shift and hefore autions, Respiratory protection may be required if excessive airborne contamination occurs. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1. Information on basic physical and chemical properties 9. Appearance 9. Powder 9. Colour 9. Stability of hazardoar steations 9. Stability of hazardoar steations		Revision: 21/10/2015
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	Inhalation	
=, · · · · · · · · · · · · · · · ·	Ingestion	Burning in mouth, vomiting, nausea, tremors and convulsions may occur.

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Skin contact	May cause skin irritation/eczema. May cause sensitisation by skin contact.
Eye contact	May cause sensitisation by skin contact. May cause temporary eye irritation.
Route of entry	Inhalation Skin and/or eye contact Ingestion.
Route of entry	initiation skin and of eye contact ingestion.
SECTION 12: ECOLOGICAL INFORMAT	TION
Ecotoxicity	The product contains a substance which is toxic to aquatic organisms and which
	may cause long-term adverse effects in the aquatic environment.
12.1. Toxicity	
Toxicity	Very toxic to aquatic organisms.
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.0076 mg/l, Fish
Acute toxicity – aquatic invertebrates	EC ₅₀ , 48 hours: 0.00017 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 0.497 mg/l, Algae
12.2. Persistence and degradability	
Persistence and degradability	The product is not readily biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	No data available on bioaccumulation.
12.4. Mobility in soil	No data available
12.5. Results of PBT and vPvB assessn	No data available
12.6. Other adverse effects	No data avallable
Other adverse effects	Not known.
Other adverse effects	Not known.
SECTION 13: DISPOSAL CONSIDERATION	ONS
13.1. Waste treatment methods	
General information	This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the
	requirements of the local Waste Disposal Authority.
ECTION 14: TRANSPORT INFORMATION	
General	This product is packed in accordance with the Excepted Quantity provisions of ADR. Materials not so packed and labelled must show the following:
14.1. UN number	
UN No. (ADR/RID)	1479
UN No. (IMDG)	1479
UN No. (ICAO)	1479
UN No. (ADN)	1479
14.2. UN proper shipping name	
Proper shipping name (ADR/RID)	OXIDIZING SOLID, N.O.S. (Contains Potassium Chlorate)
Proper shipping name (IMDG)	OXIDIZING SOLID, N.O.S. (Contains Potassium Chlorate)
Proper shipping name (ICAO)	OXIDIZING SOLID, N.O.S. (Contains Potassium Chlorate)
Proper shipping name (ADN)	OXIDIZING SOLID, N.O.S. (Contains Potassium Chlorate)
14.3. Transport hazard class(es)	
ADR/RID class	5.1
ADR/RID classification code	02
ADR/RID label IMDG class	5.1 5.1
ICAO class/division	5.1
ADN class	5.1
Transport labels	5.1
14.4. Packing group	
ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III
14.5. Environmental hazards	
Environmentally hazardous substance/ma	arine pollutant
14.6. Special precautions for user	1
EmS	F-A, S-Q
ADR transport category	3
Emergency Action Code	1Y
Hazard Identification Number ADR/RID	
Tunnel restriction code	(E)
LQ	5kg
-	-

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EQ	E1
14.7. Transport in bulk according to	o Annex II of MARPOL73/78 and the IBC Code
Transport in bulk according to Annex	II of MARPOL 73/78 and the IBC Code
	Not applicable.
CTION 15: REGULATORY INFORM	IATION
15.1. Safety, health and environmen	tal regulations/legislation specific for the substance or mixture
National regulations	This product is approved under the Control of Pesticides Regulations 1986. HS No. 9945.
15.2. Chemical safety assessment	No chemical safety assessment has been carried out.
CTION 16: OTHER INFORMATION	
General information	This product is approved under the Control of Pesticides Regulations 1986 (as amended). The information contained in this Safety Data Sheet is believed to be true and correct, as of the issue date. The accuracy and completeness of this information and any recommendations, or suggestions are made without warra or guarantee. Since the conditions of use are beyond the control of our compan- it is the responsibility of the user to determine the conditions of safe use for the product.
Reason for revision: Hazard statements in full	 MSDS re-formatted in-line with regulation 453/2010 all sections affected. H271 May cause fire or explosion; strong oxidiser. H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
	This information relates only to the specific material designated and may not b

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.