

SAFETY DATA SHEET

According to Regulation (EU) 2020/878
NIPPON PEST SMOKE / GREENHOUSE FUMIGATOR

Date of Issue: 23/10/2013
Revision: 20/02/2024
Revision No. 1.2

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

1.1. Product identifier

NIPPON PEST SMOKE GREENHOUSE FUMIGATOR

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Insecticide/ biocide

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: +44 (0)1530 510060

Only Representative

PelGar International Limited 18 rue des Remparts d'Ainay 69002 Lyon France T +44 (0)1420 80744 SDS@pelgar.co.uk, www.pelgar.co.uk

1.4. Emergency telephone number

Emergency telephone

+44 (0) 1530 510060 (Monday to Friday 9:00-17:00 GMT)

IRL ONLY:

In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification

Skin sensitisation, Category 1

H317

Hazardous to the aquatic environment

– Acute Hazard, Category 1

H400

Hazardous to the aquatic environment

– Chronic Hazard, Category 1

H410

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Pictogram



Signal word

Warning

Contains:

permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Hazard statements

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

P261 - Avoid breathing dust, fume.

P264 Wash contaminated skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+P312 - IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting

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properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Classification	SCL / ATE / M factors	Concentration [%]
TALC - substance with national workplace exposure limit(s)	14807-96-6 / 238-877-9	-	Not classified	-	≥ 10 – < 50
MAGNESIUM CARBONATE - substance with national workplace exposure limit(s)	546-93-0 / 208-915-9	-	Not classified	-	≥ 10 – < 30
PERMETHRIN	052645-53-1 258-067-9	EC Index-No.: 613-058-00-2	Acute Tox. 4 - H302, H332 Skin Sens 1 – H317 Aquatic acute 1 - H400 Aquatic chronic 1 - H410	ATE 664 mg/kg M (Acute) = 1000 M (Chronic) = 1000	10-30%
POTASSIUM CHLORATE	3811-04-9 223-289-7	EC Index-No.: 017-004-00-3	Ox. Sol 1 – H271 Acute Tox. 4 - H302, H332 Aquatic chronic 2 - H411 EUH031	-	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 measures

First-aid measures general:	Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact:	Rinse eyes with water as a precaution.
First-aid measures after ingestion:	Rinse mouth. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam.

Unsuitable extinguishing media High volume water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards Toxic fumes may be released.

5.3. Advice for firefighters

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions



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Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage.

Methods for cleaning up: Mechanically recover the product.

Other information: Dispose of materials or solid residues at an authorized site..

6.4. Reference to other sections For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a well-ventilated place. Keep cool

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Biocide smoke generator.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Ireland -

Talc

OEL TWA: 10 mg/m³ total inhalable dust 0.8 mg/m³ respirable dust

Regulatory reference

Chemical Agents Code of Practice 2021

UK

Talc

Long-term exposure limit (8-hour TWA): 1 mg/m³ respirable dust.

Magnesite (CAS 546-93-0)

OEL TWA: 10 mg/m³ total inhalable dust 4 mg/m³ respirable dust

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Protective equipment

Eye/face protection Chemical splash goggles. EN166

Hand protection Protective gloves EN374 part 1, 2, 3

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards No additional information available

Environmental exposure controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Solid

Colour: White.

Appearance: Fine white powder.

Odour: Characteristic.

Odour threshold: Not available

Melting point: Not available

Freezing point: Not applicable

Boiling point: Not available

Flammability: Non flammable.

Lower explosion limit: Not applicable

Upper explosion limit: Not applicable

Flash point: Not applicable

Auto-ignition temperature: Not applicable



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Decomposition temperature:	Not available
pH:	Not available
pH solution:	Not available
Viscosity, kinematic:	Not applicable
Solubility:	Material insoluble in water.
Partition coefficient n-octanol/water (Log Kow):	Not available
Vapour pressure:	Not available
Vapour pressure at 50°C:	Not available
Density:	Not available
Relative density:	Not available
Relative vapour density at 20°C:	Not applicable
Particle size:	Not available

9.2. Other information No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	
Stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid	
Conditions to avoid	None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials	
Materials to avoid	No additional information available.
10.6. Hazardous decomposition products	
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	
Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified
NIPPON PEST SMOKE	
Viscosity, kinematic	Not applicable.
11.2. Information on other hazards	No additional information available

SECTION 12: ECOLOGICAL INFORMATION

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	
Ecology - general:	Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute):	Very toxic to aquatic life.



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Hazardous to the aquatic environment, long-term (chronic):	Very toxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	
Persistence and degradability	The product is not readily biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	No additional information available.
12.4. Mobility in soil	
Mobility in soil	No additional information available
12.5. Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment	No additional information available
12.6. Endocrine disrupting properties	
Endocrine disrupting properties	No additional information available
12.7. Other adverse effects	
Other adverse effects	No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods	
Waste treatment methods:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
HP Code:	HP2 - "Oxidising:" waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials. HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. HP12 - "Release of an acute toxic gas:" waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment.

SECTION 14: TRANSPORT INFORMATION

Special Provisions	
ADR	375
IMDG	969
IATA	A197
These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	
14.1. UN number	
UN No. (ADR/RID)	3077
UN No. (IMDG)	3077
UN No. (IATA)	3077
14.2. UN proper shipping name	
Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID, N.O.S. (Contains Permethrin)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID, N.O.S. (Contains Permethrin)
Proper shipping name (IATA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID, N.O.S. (Contains Permethrin)
14.3. Transport hazard class(es)	
ADR/RID class	9
ADR/RID classification code	M7
ADR/RID label	9
IMDG class	9
IATA class	9
14.4. Packing group	
ADR/RID packing group	III
IMDG packing group	III
IATA packing group	III



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14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

Overland transport

Classification code (ADR): M7
Special provisions (ADR): 274, 335, 375, 601
Limited quantities (ADR): 5kg
Excepted quantities (ADR): E1
Packing instructions (ADR): P002, IBC08, LP02, R001
Special packing provisions (ADR): PP12, B3
Mixed packing provisions (ADR): MP10
Portable tank and bulk container instructions (ADR): T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (ADR): TP33
Tank code (ADR): SGAV, LGBV
Vehicle for tank carriage: AT
Transport category (ADR): 3
Special provisions for carriage - Packages (ADR): V13
Special provisions for carriage - Bulk (ADR): VC1, VC2
Special provisions for carriage - Loading, unloading, and handling (ADR): CV13
Hazard identification number (Kemler No.): 90
Orange plates:
Tunnel restriction code (ADR): -

Transport by sea

Special provisions (IMDG): 274, 335, 966, 967, 969
Limited quantities (IMDG): 5 kg
Excepted quantities (IMDG): E1
Packing instructions (IMDG): LP02, P002
Special packing provisions (IMDG): PP12
IBC packing instructions (IMDG): IBC08
IBC special provisions (IMDG): B3
Tank instructions (IMDG): BK1, BK2, BK3, T1
Tank special provisions (IMDG): TP33
EmS-No. (Fire): F-A
EmS-No. (Spillage): S-F
Stowage category (IMDG): A
Stowage and handling (IMDG): SW23

Air transport

PCA Excepted quantities (IATA): E1
PCA Limited quantities (IATA): Y956
PCA limited quantity max net quantity (IATA): 30kgG
PCA packing instructions (IATA): 956
PCA max net quantity (IATA): 400kg
CAO packing instructions (IATA): 956
CAO max net quantity (IATA): 400kg
Special provisions (IATA): A97, A158, A179, A197, A215
ERG code (IATA): 9L

14.7. Transport in bulk according to 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.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List) Contains no substance(s) listed on REACH Annex XVII (Restriction conditions)



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REACH Annex XIV (Authorisation List)	Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
REACH Candidate List (SVHC)	Contains no substance(s) listed on the REACH Candidate List
PIC Regulation (Prior Informed Consent)	Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Permethrin (52645-53-1), potassium chlorate (3811-04-9)
POP Regulation (Persistent Organic Pollutants)	Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)
Ozone Regulation (1005/2009)	Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)
Dual-Use Regulation (428/2009)	Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.
National regulations	No additional information available
15.2. Chemical safety assessment	No chemical safety assessment has been carried out.

SECTION 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 warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use for this product.
Reason for revision:	Supersedes revision: 7 August 2017; Sections 1.2, 1.4, 7.3 updated.
Abbreviations and acronyms:	
AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet



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STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH031	Contact with acids liberates toxic gas.
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
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.
Ox. Sol. 1	Oxidising Solids, Category 1
Skin Sens. 1	Skin sensitisation, Category 1

General information

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.