SAFETY INFORMATION SHEET

Date of Issue: Sept 2019
Revision: Dec 2020

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

1.1 Product Identifier: HOUSE PLANT LEAFSHINE

1.2 Relevant uses of the substance or mixture and uses advised against:
Leafshine aerosol

1.3 Manufacturer/Distributor: Vitax Limited, Owen Street, Coalville LE67 3DE
Tel: 01530 510060 Email: info@vitax.co.uk

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

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

2. HAZARDS IDENTIFICATION

2.1 Classification: **Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)**
Physical hazards Aerosol 1 - H222, H229
Health hazards Elicitation – EUH066
Environmental hazards not classified

2.2 Label Elements:

Signal word: Danger

Hazard statements:
H229 Pressurised container: may burst if heated.
H222 Extremely flammable aerosol.

Precautionary Statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P102 Keep out of reach of children.
P271 Use only outdoors or in a well-ventilated area.
P501 Dispose of contents/container in accordance with local regulations.

Supplemental labelling EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other Hazards: Not Classified as PBT/vPvB by current EU criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s) and Phrases	Precautionary Statements:	Concentration [%]
Odourless Kerosene	926-141-6	01-2119456620-43	Asp. Tox. 1 - H304		30-60%
Petroleum gases, liquefied	68476-85-7 270-704-2	Exempt under REACH	Flam. Gas 1 - H220 Press. Gas		30-60%
White mineral oil	8042-47-5 232-455-8	01-2119487078-27-xxxx	Asp. Tox. 1, H304		1 - 5%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General information Move affected person to fresh air at once.

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 and get medical attention.

Skin contact – Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately. Remove contaminated clothing immediately and wash skin with soap and water.

Inhalation – If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

4.3 Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2 Special hazards arising from substance or mixture:

Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3 Advice for firefighters: Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.

6.2 Environmental precautions: Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non- combustible material.

6.3 Methods and material for containment and cleaning up:

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling: Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent material.

7.2 Conditions for Safe Storage: Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Extremely flammable. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. **Storage class:** Flammable compressed gas storage.

7.3 Specific end use: Leafshine.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

Odourless Kerosene	Long-term exposure limit (8-hour TWA): OEL 1200 mg/m^3
Petroleum gases, liquefied	EH40 WEL TWA 1,000 ppm 1,750 mg/m^3
	EH40 WEL STEL 1,250 ppm 2,180 mg/m^3
	ACGIH TWA 1,000 ppm

OEL = Occupational Exposure Limit.
WEL = Workplace Exposure Limit

8.2 Exposure Controls:

Personal protective equipment:

General protective and hygienic measures: Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients. Do not eat, drink or smoke when using the product.

Breathing equipment: If ventilation is inadequate, suitable respiratory protection must be worn.

Protection of hands: Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be

	chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Wash hands after handling. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
Eye protection:	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	aerosol
Odour	organic solvent
pH	not available
Boiling point	not available
Melting point	not available
Flash point	< -40^{0}C
Flammability Limits	Lower: 1.8% - Upper 9.5%
Autoflammability	410-580°C

9.2 Other information: Information given is applicable to the major ingredient.

10. STABILITY & REACTIVITY

10.1 Reactivity:	no data
10.2 Stability:	Avoid the following conditions: Heat, sparks, flames.
10.3 Possibility of hazardous reactions	no data
10.4 Conditions to Avoid:	Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
10.5 Incompatible materials:	no data.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
Acute Toxicity (Oral LD50) OECD 420	Odourless Kerosene > 5000 mg/kg Rat
Acute Toxicity (Dermal LD50) OECD 402	Odourless Kerosene > 2000 mg/kg Rabbit
Acute Toxicity (Inhalation LC50) OECD 403	Odourless Kerosene > 5000 mg/l Rat 4 hours
Skin Corrosion/Irritation:	
Erythema\eschar score	Odourless Kerosene No erythema (0).
Oedema score OECD 404	Odourless Kerosene No oedema (0).
Respiratory or skin sensitisation:	
Respiratory sensitisation	Odourless Kerosene There is no evidence that the material can lead to respiratory hypersensitivity.
Skin sensitisation	
Buehler test: Guinea Pig OECD 406	Odourless Kerosene Not Sensitising.
Germ cell mutagenicity:	
Genotoxicity - In Vivo	Odourless Kerosene Negative. This substance has no evidence of genotoxic properties.
Carcinogenicity:	
Carcinogenicity	Odourless Kerosene This substance has no evidence of carcinogenic properties.
Reproductive Toxicity:	
Reproductive Toxicity – Fertility OECD Test Guideline 421	Odourless Kerosene NOAEL >3000 mg/kg/day Oral Rat no evidence of toxicity to reproduction.
Reproductive Toxicity - Development	
Developmental toxicity: Method OECD 414	Odourless Kerosene NOAEL 1000 mg/kg/day Oral Rat no evidence of toxicity to reproduction.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure	Odourless Kerosene NOAEL 750 mg/kg Oral Rat
Product	
Inhalation	Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.
Skin contact	Irritating to skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards	Arrhythmia (deviation from normal heart beat). Irritating to skin. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Route of exposure	Inhalation
Target organs	Central nervous system Respiratory system, lungs
Medical symptoms	Skin irritation. Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Toxicity – Fish OECD 203	Odourless Kerosene	LC50 96 hours > 10 mg/l Onchorhynchus mykiss (Rainbow trout)
Acute Toxicity - Aquatic Invertebrates OECD 202	Odourless Kerosene	EC50 48 hours > 10 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants	Odourless Kerosene	Not available.
Acute Toxicity – Microorganisms	Odourless Kerosene	EC50 72 hours 678 mg/l Activated sludge

12.2. Persistence and degradability

Degradability	Odourless Kerosene	This substance is inherently biodegradable
Biodegradation	Odourless Kerosene	No information required. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

12.3. Bioaccumulative potential

Partition coefficient	Odourless Kerosene	No information required. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

12.4. Mobility in soil

Mobility:

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Do not puncture or incinerate, even when empty.

13.1 Waste treatment methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

14. TRANSPORT INFORMATION

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS

Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

Transport labels

14.4. Packing group Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant Yes

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14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to this substance:

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical Safety Assessment not undertaken for this material

16. OTHER INFORMATION

Revision Replaces version dated Sept 2019. Emergency contact details amended.

Hazard statements in full

H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H304 May be fatal if swallowed and enters airways.

Liability The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by VITAX LTD, for Health and Safety purposes from the best knowledge available at the time of printing.