Safety Data Sheet according to COMMISSION REGULATION (EU) 2015/830 (REACH)

SWISSINNO Mosquito Stop Lantern, Refill mats
Mosquito Stop Mats

Validity	EU, CH, NO
First version date	02.01.2013
Last revision	20.09.2019
Version	V20 EN

01 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

SWISSINNO Mosquito Stop Lantern, Refill mats
Mosquito Stop Mats

Item number: 1 230 000, 1 232 000, 1 251 000, 3 032 001 (RAC813) , 3 034 001

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

Relevant identified uses Biocide

1.3 Details of the supplier of the safety data sheet

SWISSINNO SOLUTIONS AG
Rosenbergstrasse 22
9000 St. Gallen
Switzerland
Telephone +41 71 223 40 16
Fax +41 71 223 40 24
E-mail quality@swissinno.com

1.4 Emergency telephone number +44 (0)20 8762 8322 (UK)

02 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification corresponding to regulation (EC 1272/2008) (CPL):
- Physical and Chemical Hazards: Not classified.
- Human health: Acute Tox. 4 - H302; Acute Tox. 4 - H332;
- Environment: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

2.2 Label elements Dangerous for the environment

corresponding to regulation (EC 1272/2008) (CPL):

Signal Word **Warning GHS07 + GHS09**

Hazard statements

H302 Harmful if swallowed.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapours.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Supplementary precautionary statements:
P102 Keep out of reach of children.
P270 Do no eat, drink or smoke when using this product.
P301+312 IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P391 Collect spillage.
P501 Dispose of contents in accordance with local regulations.

2.3 Other hazards

This product does not contain any PBT or vPvB substances.

03 COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Dangerous Ingredients

Description	CAS-No.	EG-No.	Classification	Concentration
d-Allethrin (Pynamin® Forte TG)	231937-89-6	687-634-7	Classification (EC 1272/2008): Acute Tox. 4 - H302; Acute Tox. 4 - H332; Aquatic Acute 1 - H400; Aquatic Acute 1 - M-factor=100; Aquatic Chronic 1 - H410; Aquatic Chronic 1 - M-factor=100	60.5% *
ANTIOXIDANT 425 (2,2'-methylenebis(6-tert-butyl-4-ethylphenol))	88-24-4	201-814-0	Classification (EC 1272/2008): Skin Irrit. 2 - H315; Eye irrit. 2 - H319; STOT SE 3 - H335	3.03%

The full text of all H-phrases is displayed in section 16.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Remove victim immediately from source of exposure to fresh air. Seek medical help if any discomfort continues.

Skin contact

Wash the skin immediately with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

Eye contact

Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Consult a physician for specific advice.

4.2 Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

05 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Carbon Dioxide (CO2), Dry powder.
Unsuitable extinguishing media	Water
5.2 Special exposure hazards arising from the substance or mixture	Toxic gases/vapours/fumes of: Carbon monoxide (CO).
5.3 Advice for firefighters	Self contained breathing apparatus and full protective clothing must be worn in case of fire.

06 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Wear protective clothing as described in Section 8.
6.2 Environmental precautions	Do not allow to enter drains, sewers or watercourses. In case of pollution of such areas, inform the responsible authorities.
6.3 Methods and material for containment and cleaning up	Absorb in vermiculite, dry sand or earth and place into containers.
6.4 Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.

07 HANDLING AND STORAGE

7.1 Precautions for safe handling	Provide good ventilation. Protect against direct sunlight.
7.2 Conditions for safe storage, including any incompatibilities	Store in tightly closed original container in a dry, cool and well-ventilated place.
7.3 Specific end use(s)	Outdoor mosquito control

08 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	No exposure limits noted for ingredient d-allethrin (Pynamin Forte TG CAS: 231937-89-6).

8.2 Exposure controls

Appropriate engineering controls	Provide adequate ventilation.
Respiratory protection	Self-contained breathing apparatus.

Hand protection	Protective gloves
Eye / face protection	Approved safety goggles
Skin protection	Protective work clothing
Environmental exposure controls	Do not let reach canalisation, drains, groundwater.

09 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Blue paper mat
Odour	Faint, characteristic.
Odour threshold	not applicable
pH	Not relevant. Product is an impregnated mat.
Melting point/freezing point	not applicable
Initial boiling point and boiling range	not applicable
Flash point	No information required: Product is paper-based and not flammable. None of the components are flammable.
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	Not relevant. Product is an impregnated mat.
Solubility	not applicable
Partition coefficient: n-octanol/water	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	not applicable
Viscosity	not applicable
Explosive properties	Not considered to be explosive: Based on the composition of the product, it is not considered to have this property.

Oxidising properties Does not meet the criteria for oxidising: Based on the composition of the product, it is not considered to have this property.

9.2 Other information No information required.

10 STABILITY AND REACTIVITY

10.1 Reactivity No specific reactivity hazards associated with this product.

10.2 Chemical stability Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions Will not polymerise.

10.4 Conditions to avoid Avoid exposure to high temperatures or direct sunlight

10.5 Materials to avoid Strong oxidising substances. Bases, alkalis (inorganic). Bases, alkalis (organic).

10.6 Hazardous decomposition products During fire, toxic gases (CO, CO2, NOx) are formed.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.0 Acute toxicity Ingredient: d-allethrin (Pynamin Forte TG (CAS: 231937-89-6)):
- Acute Toxicity (Oral LD50)
900 mg/kg Rat
- Acute Toxicity (Dermal LD50)
> 2000 mg/kg Rat
- Acute Toxicity (Inhalation LC50)
3.875 mg/l (vapours) Rat 4 hours

11.1.1 skin corrosion/irritation Not irritating

11.1.2 serious eye damage/irritation Not irritating

11.1.3 respiratory or skin sensitization Not Sensitising

11.1.4 germ cell mutagenicity This substance has no evidence of mutagenic properties

11.1.5 carcinogenicity This substance has no evidence of carcinogenic properties

11.1.6 reproductive toxicity This substance has no evidence of toxicity to reproduction

11.1.9 aspiration hazard

Ingredient: d-allethrin (Pynamin Forte TG (CAS: 231937-89-6)):
- Aspiration hazard
Not relevant, due to the form of the product.
- Inhalation
Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication. Vapours may cause drowsiness and dizziness.
- Ingestion
Harmful if swallowed.
- Skin contact
Not a skin sensitiser. Skin irritation is not anticipated when used normally.
- Eye contact
Vapour in the eyes may cause irritation and smarting.
- Health Warnings
Synthetic pyrethroids can produce parasthesias. Typically, symptoms begin several hours after cutaneous exposure, peaks within 12 hours and resolves within about 24 hours. Prolonged or repeated exposure may cause: Nausea, vomiting, diarrhoea, headache, tremors, convulsions.

General information

The toxicological classification of the mixture is based on the results of the calculation procedure according to the CLP regulation. Based on the experience of the manufacturer there are no hazards to be expected beyond the labeling.

12 ECOLOGICAL INFORMATION

Ecological information on ingredients

Ecotoxicity

Ingredient: d-allethrin (Pynamin Forte TG (CAS: 231937-89-6))
Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

12.1 Toxicity

Acute Fish Toxicity: Very toxic to aquatic organisms.
LC 50, 96 Hrs, Fish mg/l: 0.134
EC 50, 48 Hrs, Daphnia, mg/l: 0.047
IC 50, 72 Hrs, Algae, mg/l: 2.9

12.2 Persistence and degradability

Photodegradable.

12.3 Bioaccumulative potential

Will not bio-accumulate.Partition coefficient: 4.95

12.4 Mobility in soil

Readily absorbed into the soil.

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

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

Transport by road. ADR/RID (2008/68/EC)

Avoid releasing to the environment.

Transport by rail. RID (2008/68/EC)	Avoid releasing to the environment.
Transport by sea. IMDG	Avoid releasing to the environment.
Transport by air. ICAO	Avoid releasing to the environment.
14.1 UN-number	(ADR/RID/ADN): 3077
14.2 Proper UN shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-allethrin)
14.3 Transport hazard class	(ADR/RID/ADN): 9
14.4 Packing group	III
14.5 Environmental hazards	Environmentally Hazardous Substance / Marine Pollutant
14.6 Special precautions for user	Hazard No. (ADR): 90
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture	EU Legislation: REACH-Regulation (EG) No. 1907/2006, changed by Regulation (EU) 2015/815 CLP-Regulation (EG) No. 1272/2008, changed by Regulation (EU) 2015/491. EU Biocide: This product falls under the biocide Regulation (EC) No 528/2012 including amendments from 5.4.2014.
15.2 Chemical safety assessment	No chemical safety assessment has been carried out.

16 OTHER INFORMATION

Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements	P261 Avoid breathing vapours. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Supplementary precautionary statements: P102 Keep out of reach of children. P270 Do no eat, drink or smoke when using this product. P301+312 IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P391 Collect spillage. P501 Dispose of contents in accordance with local regulations.
Training advice	not necessary
Recommended restrictions on use	Outdoor use ONLY.
Further information	The information provided by this Safety Data Sheet should enable the user to take the necessary measures relating to protection of human health, safety and protection of the environment. Information provided by this Safety Data Sheet are considered to be accurate at the time of its compilation. Information provided should enable the user to handle, store and dispose properly the preparation in the form in which it is placed on the market. Supplier is not responsible for any damage or injury resulting from failure to follow appropriate use or practices.

All information, which has been added, deleted or revised is indicated by * on the right side of the page