

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

**SWISSINNO Mosquito Stop Lantern, Refill mats  
 Mosquito Stop Mats**

Validity EU, CH, NO  
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 Version V19 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**

P102 Keep out of reach of children. \*  
 P261 Avoid breathing vapours.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P301+312 IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 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 (CO<sub>2</sub>), 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.

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

## 09 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Blue paper mat
<b>Odour</b>	Faint, characteristic.
<b>Odour threshold</b>	not applicable
<b>pH</b>	Not relevant. Product is an impregnated mat.
<b>Melting point/freezing point</b>	not applicable
<b>Initial boiling point and boiling range</b>	not applicable
<b>Flash point</b>	No information required: Product is paper-based and not flammable. None of the components are flammable.
<b>Evaporation rate</b>	not applicable
<b>Flammability (solid, gas)</b>	not applicable
<b>Vapour pressure</b>	not applicable
<b>Vapour density</b>	not applicable
<b>Relative density</b>	Not relevant. Product is an impregnated mat.
<b>Solubility</b>	not applicable
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Auto-ignition temperature</b>	not applicable
<b>Decomposition temperature</b>	not applicable
<b>Viscosity</b>	not applicable
<b>Explosive properties</b>	Not considered to be explosive: Based on the composition of the product, it is not considered to have this property.
<b>Oxidising properties</b>	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, CO<sub>2</sub>, NO<sub>x</sub>) 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**

P102 Keep out of reach of children.  
P261 Avoid breathing vapours.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P301+312 IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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**