

1. Identification

Product Identifier: Adhesive mixture for Insect Light Trap glue boards

Manufacturer: Brandenburg UK Limited
29 Navigation Drive, Hurst Business Park,
Brierley Hill, West Midlands, DY5 1UT United Kingdom

Emergency Contact: +44 1384 472900
Technical Assistance: +44 1384 472900

2. Hazard Identification

Classification (CLP):	
Skin sensitizer H317 May cause an allergic skin reaction	Category 1
Chronic hazards to the aquatic environment H412 Harmful to aquatic life with long lasting effects	Category 3



Label elements (CLP):	
Signal word	Warning
Hazard statement	H317 May cause an allergic skin reaction H412 Harmful to aquatic life with long lasting effects
Precautionary statement: Prevention:	P101: If medical advice is needed have product container or label at hand P102: Keep out of reach of children P273: Avoid release to the environment P280: Wear protective gloves / eye protection P302+P352: If on skin: Wash with plenty of soap and water P333+P313: If skin irritation or rash occurs: Get medical advice/attention

3. Composition – Information on Ingredients

Substances: Not applicable
 Mixtures: Adhesive mixture

Declaration of the ingredients complying with the CLP (EC) n°1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg.	%	Classification
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	01-2119491304-40	0.1 - <1	Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Skin Sensitizer 1A H317
2-(2H-Benzotriazol-2yl)-4,6-ditertpentylphenol 25973-55-1	247-384-8 01-2119955688-17	0.1 - <1	STOT RE 2; Orale H373 Aquatic Chronic 4 H413 ==== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)

4. Emergency and First Aid Procedures

General Information: There is no need of specific precaution. Only the melted material can be considered as hazardous. Burn risk with the melted material.

Skin contact	Wash with soap or liquid paraffin.
Ingestion	In the unlikely event of ingestion, consult a doctor.
Inhalation	Move to fresh air. Consult a doctor if complaint persists.
Eye contact	Wash with plenty of running water.

Most important symptoms and effects, both acute and delayed: **Skin:** Rash, Urticaria

Indication of any immediate medical attention and special treatment needed: See First Aid Measures

5. Fire-Fighting Measures

Flammability	Combustible.
Fire Extinguisher	Use foam, fire extinguishing powders, carbon dioxide. For the not-burst product losses and discharges, water spray can be used to waste inflammable vapors and protect people working to stop the loss.
Extinguishing media which must not be used for safety reasons:	Water jets must not be used. Water is not effective to extinguish fire, but can be used to cool the closed drums which are exposed to fire. This is necessary to prevent explosions.
Hazardous Decomposition Products in Fire	Toxic gases can be released in case of fire.
Advice for fire fighters	Wear self-contained breathing apparatus. Wear protective equipment.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear protective equipment. Avoid contact with skin and eyes. Keep unprotected people away.
Environmental Precautions:
Do not release into the environment. Do not empty into drains, surface water, ground water. Inform authorities in the event of product spillage to water courses or sewage systems.
Methods and Material for Containment and Cleaning Up:
Allow to solidify. Remove mechanically. Dispose of contaminated material as waste according to Section 13.
Reference to Other Sections:
See advice in Section 8.

7. Handling and Storage

Precautions for Safe Handling	
Hygiene Measures:	Wash hands before work breaks and after finishing work. Do not eat, drink, or smoke while working.
Instructions in Case of Fire or Explosion:	No special measures are required.
Conditions for Safe Storage	
	Ensure good ventilation/suction.
Specific End Use(s)	
	Hot melt adhesive mixture.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits:

(Valid for Italy)

Ingredient (Regulated Substance)	mg/m ³	Value Type	Notes	Regulatory List
Vaseline oil (petroleum), 8042-47-5 (mineral oil, fogs)	5	Weighted average (8 hours)		OEL (IT)
Vaseline oil (petroleum), 8042-47-5 (mineral oil, fogs)	10	Short term		OEL (IT)
Vaseline oil (petroleum), 8042-47-5 (mineral oil, fogs) (Mineral oil, with the exception of the liquids for the metal processing. Pure, highly and strictly refined, inhalable fraction)	5	Weighted average (8 hours)	Limit value source: ACGIH	OEL (IT)
Particles (not soluble or not very soluble) not differently classified. (Breathable particles)	3	Weighted average (8 hours)	Limit value source: ACGIH	OEL (IT)
Particles (not soluble or not very soluble) not differently classified. (Inhalable particles)	10	Weighted average (8 hours)	Limit value source: ACGIH	OEL (IT)

Biological Exposure Indices: None

Exposure Controls:

Instructions for Technical Plants Configuration:
Ensure a good ventilation/suction.
Respiratory Protection:
In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P. This recommendation should be matched to local conditions.
Hand Protection:
Wear refractive gloves category III (ref. Reg. EN374). For the glove's material it's necessary to consider: compatibility, degradation, time-to-break and permeation. In case of mixture, the gloves durability to chemical agents must be checked before their use since it is not predictable. The glove's consumption depends on their use durability and way.

Exposure Controls (continued)

Skin Protection:
Wear protective equipment with long sleeves and safety shoes for professional use of I category (ref. Reg. 89/686/EEC and EN ISO 20344). Rinse with water and soap after having removed the protective clothes.
Eye Protection:
Goggles that can be tightly sealed (ref. Reg. EN 166).
Environmental Exposure Controls:
The emissions coming from manufacturing processes, including those from ventilation devices, should be checked in order to comply with the regulations on environmental protection.

9. Physical and Chemical Properties

Appearance:	Solid material.	Odor:	Characteristic.
Color:	Colorless.	Odor Threshold:	No data available.

pH:	No data available.
Melting Point / Freezing Point:	No data available.
Initial Boiling Point and Boiling Range:	No data available.
Flash Point (°C):	> 200°C
Boil-Up Rate:	No data available.
Flammability:	No data available.
Flammability or Explosivity Lower Limit:	No data available.
Flammability Upper Limit:	No data available.
Vapor Pressure (at 20°C):	No data available.
Vapor Density:	No data available.
Relative Density:	Not defined.
Solubility (Qualitative):	No data available.
Partition Coefficient: n-octanol/water:	No data available.
Auto-Ignition Temperature (°C):	No data available.
Viscosity: <i>(Brookfield; Instrument: RVT; 100 °C (212 °F); Speed of rotation: 20 min-1; Spindle N.:21)</i>	800 - 1,400 mPa s
Dynamics / Kinetics:	Non applicable.
Explosive Properties:	Not explosive.
Oxidizing Properties:	Not oxidant.
Other Information:	None.

10. Stability and Reactivity

Reactivity:	Stable under recommended storage and use conditions.
Chemical Stability:	Stable under recommended storage and use conditions.
Possibility of Hazardous Reactions:	None under use and storage conditions.
Conditions to Avoid:	None. Nevertheless, comply with the usual cautions towards chemical products.
Incompatible Materials:	None if used properly.
Hazardous Decomposition Products:	No decomposition if used according to specifications.

11. Toxicological Information

General Toxicological Information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Sensitizing:
May cause an allergic skin reaction.

Acute Oral Toxicity:

Hazardous Components CAS-No.	Type	Value	Route	Species	Method
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50	3,230 mg/kg	Oral	Rat	OECD Guideline 423 (Acute Oral toxicity)
2-(2H-Benzotriazol-2yl)-4,6-ditertpentylphenol 25973-55-1	LD50	> 2,000 mg/kg	Oral	Rat	

Respiratory or Skin Sensitization:

Hazardous Components CAS-No.	Result	Test Type	Species	Method
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Sensitizing	Guinea pig maximization test	Guinea Pig	OECD Guideline 406 (Skin Sensitization)

12. Ecological Information

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Do not empty into drains, soil or bodies of water.

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Hazardous Components CAS-No.	Type	Value	Acute Toxicity Study	Exp. Time	Species	Method
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	LD50	0.9 mg/l	Fish	96 h	<i>Danio rerio</i>	OECD Guideline 203 (Fish, Acute Toxicity)
	NOEC	0.22 mg/l	Algae	72 h	<i>Desmodesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition)
	EC50	1.68 mg/l	Algae	72 h	<i>Desmodesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition)
	NOEC	1 mg/l	Chronic Daphnia	21 d	<i>Daphnia magna</i>	OECD Guideline 211 (Daphnia magna, Reproduction)
2-(2H-Benzotriazol-2-yl)- 4,6-ditertpentylphenol 25973-55-1	EC0	> 100 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition)

Ecological Information (continued)

Persistence and Degradability:

Hazardous Components CAS-No.	Route of Application	Degradability	Method
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Aerobic	38 %	OECD Guideline 301 E (Ready Biodegradability: Modified OECD Screening)
2-(2H-Benzotriazol-2yl)-4,6-ditertpentylphenol 25973-55-1	Aerobic	2 - 8 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution)

Bioaccumulative Potential / Mobility in Soil:

Hazardous Components CAS-No.	LogKow	Bioconcentration Factor (BCF)	Species	Temp.	Method
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	2.37 - 2.77			25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-(2H-Benzotriazol-2yl)-4,6-ditertpentylphenol 25973-55-1		4,790	Fish		OECD Guideline 305 E (Bioaccumulation: Flow- through Fish)
2-(2H-Benzotriazol-2yl)-4,6-ditertpentylphenol 25973-55-1	> 6.5			23 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Ecological Information (continued)

Results of PBT and vPvB Assessment:

Hazardous Components CAS-No.	PBT / vPvB
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-(2H-Benzotriazol-2yl)-4,6-ditertpentylphenol 25973-55-1	Fulfilling PBT criteria.

Other Adverse Effects: No data available.

13. Disposal Considerations

Waste Treatment Methods:

Product Disposal: In consultation with the responsible local authority, it must be subjected to special treatment.

Waste Codes: The valid EWC waste code numbers are not related to the product but to its source. For this reason the producer is unable to specify the EWC waste codes for the products used in different fields. 08 04 09 Waste Adhesives and Sealants Containing Organic Solvents or Other Dangerous Substances.

14. Transportation Information

UN Number:	Not hazardous according to RID, ADR, AND, IMDG, IATA-DGR.
UN Shipping Regulation:	Not hazardous according to RID, ADR, AND, IMDG, IATA-DGR.
Transport Hazard Class:	Not hazardous according to RID, ADR, AND, IMDG, IATA-DGR.
Packing Group:	Not hazardous according to RID, ADR, AND, IMDG, IATA-DGR.
Environmental Hazards:	Not hazardous according to RID, ADR, AND, IMDG, IATA-DGR.
Special Precautions for Users:	Not hazardous according to RID, ADR, AND, IMDG, IATA-DGR.
Transport in Bulk According to Annex II of Marpol 73/78 and the IBC Code:	Not applicable.

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific to the Substance or Mixture:

VOC Content: 0 % (VOCV 814.018 VOC regulation CH)

Chemical Safety Assessment: A chemical safety assessment for the mixture or the substance has not been carried out.

National Regulations / Information:

European Regulation 1907/2006 REACH

Directive 67/548/EEC and following amendments up to XXIX included (Directive 2004/73/EC)

Regulation n.648/2004/EC (Detergents Regulation)

European Directive 98/8/EC Biocidal products and following amendments

European Regulation 1272/2008 CLP

European Regulation 790/2009

16. Other Information

The labeling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Additional Labeling: Contains Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate.
It may produce an allergic reaction.

This information is provided for health and safety assessments by an individual user.

Reference should be made to any relevant local or national health, safety, and environmental legislation.

This information does not constitute indication of suitability for specific uses