



PT. IndowijayaSaktiTeguh

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MATERIAL SAFETY DATA SHEET

PUFFIN INSECTGUARD

TRADE NAME : PUFFIN INSECTGUARD

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Identification of substance or preparation

Chemical description : Emulsion water base wall paint with anti insect benefit

Recommendation use : Interior coatings for wall ,concrete and soft board substrate Applied by brush, rolled or Airless spray

Company /undertaking identification supplier :

PT.Indowijaya Sakti Teguh

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2. HAZARD IDENTIFICATION

2.1. Classification of the

substance or mixture

Based on acute toxicity, oral, dermal test and lead, mercury, tin content, product classified unlikely to present acute hazard in normal use.

2.2 Classification according to REGULATION (EC) No 1272/2008

Acute toxicity, Oral (Category 5), H302

Acute toxicity, Inhalation (Category 5), H332

Skin sensitization (Category 5), H317

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

2.2. Label elements

Labeling according Regulation (EC) No 1272/2008

For general use

Signal word : caution

unlike to present acute hazard in normal use .

Hazard statement(s)

H302 + H332 May be harmful if swallowed and inhaled

H317 May be harmful in contact with skin

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention:

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.

P27 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the
Workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P301+312 IF SWALLOWED: Call a POISON CENTER

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

P363 Wash contaminated clothing before reuse.

Storage: /

Disposal considerations:

P501 Dispose of this material and its container to hazardous or
Special waste collection point, in accordance with
local, regional, national and/or international regulation.

Contains: active ingredient below 2 %

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Component	CAS Number	Proportion	Risk phrases
Water	7732-18-5	25-30 %	
Pigment ,TIO2 &OPAQUE		10-15 %	- UNLIKELY TO PRESENTACUTE HAZARD IN NORMAL USE
Caco3 *baso4	72608-12-19	35-45%	-
synthetic pyrethroid	52645-53-1	1 -2 %	Slightly Hazardouss
Mineral oil		1-2 %	- UNLIKELY TO PRESENTACUTE HAZARD IN NORMAL USE
polimer		Up to 100%	- UNLIKELY TO PRESENTACUTE HAZARD IN NORMAL USE
Ingredients determined not to be hazardous		98-99 %	

4. FIRST AID MEASURES (SYMPTOMS)

4.1 Description of first aid measures

General information:In case of accident or if you feel unwell, seek medical advice

After inhalation:Move victim to fresh air, put at rest and loosen restrictive clothing.

Seek medical aid in caseof troubles.

In case of skin contact: Change contaminated clothing. Wash with plenty of water. Consult physician.

After eye contact:Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting. Consult physician immediately

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

No special measures are required.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water fog, foam, extinguishing powder, carbon dioxide.

5.2 Special hazards arising from the substance or mixture Supports burning process.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus. To avoid contact with skin, keep safety distance and wear suitable protective clothing.

Additional information: Hazchem-Code: /

Move undamaged containers from immediate hazard area if it can be done safely. Do not allow water used to extinguish fire to enter drains, ground or waterways.

Treat runoff as hazardous

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with the substance.

Provide adequate ventilation. Wear protective equipment. Avoid exposure. Contact expert.

6.2 Environmental precautions

Keep people and animals away.

Do not allow to penetrate into soil, water bodies or drains.

6.3 Methods and material for containment and cleaning up

Collect dry and place in appropriate containers for disposal, cleaning.

6.4 Reference to other sections

Not required

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advices on safe handling: Avoid exposure - obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and dry.

Do not refill product residues into the original container. Keep in

A cool, well-ventilated place.

Protect from heat and direct sunlight.

Only trained personnel may be allowed to enter storage area.

Hints on joint storage: Do not store together with: reducing agent, salts of heavy metals, combustible Substances.

Storage class: /

7.3 Specific end use(s)

No data available

8. EXPOSURE CONTROL PERSONAL PROTECTION

Control parameters

Occupational exposure limits

None

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls :Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures :Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection :Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection :There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Wear suitable gloves tested to EN374. Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber, neoprene, PVC

May be used, gloves(breakthrough time) 4 - 8 hours: polyvinyl alcohol (PVA), 4H

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection :Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection :Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection :Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	: Liquid.
Colour	: Various
Odour	: Characteristic
Odour threshold	:Not Available
PH	:8-9
Melting/freezing point	:0
Boiling point	:Lowest known value: 100°C (212°F) (water). Weighted average: 105.66°C (222.2°F)
Flash point	:Not available.
Burning time	: Not applicable
Burning rate	: Not applicable.
Evaporation rate	: Highest known value: 0.36 (water) Weighted average: 0.35compared with butyl acetate
Flammability (solid, gas)	: Not applicable
Lower and upper explosive (flammable) limits	:0.6 - 12.6%
Vapour pressure	: Highest known value 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.05 kPa (22.88 mm Hg) (at 20°C)

Vapour density :Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2, 4-trimethyl-1,3-pentanediol). Weighted average: 5.07 (Air = 1)

Relative density :1.314 to 1.384 g/cm³

Solubility :Easily soluble in the following materials: cold water and hot water.

Solubility in water :Not available

Partition coefficient: noctanol/water :Not available.

Auto-ignition temperature. : Not applicable.

Decomposition temperature :Not available.

SADT : Not available.

Viscosity :Dynamic: Highest known value: 43.43 cP (propylene glycol) Weighted average: 28.02 cP
Kinematic (40C): >20.5 cSt

10. STABILITY AND REACTIVITY

Reactivity:No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability :The product is stable

Possibility of Hazardous reaction :Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid :No specific data.

Incompatible materials :Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids

Hazardous Decomposition Products :Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SADT : Not available.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/Ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl butylcarbamate (IPBC)	LD50 Oral	Rat	1470 mg/kg	-

Irritation/ corrosion

Product/ ingredient name	Result	species	score	exposure	observation
3-iodo-2-propynyl butylcarbamate (IPBC)	Eyes - irritant	Mammal - species unspecified	-	-	-

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
3-iodo-2-propynyl butylcarbamate (IPBC)	skin	Mammal - species unspecified	Sensitising

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
3-iodo-2-propynyl butylcarbamate (IPBC)	Category 1	Not determined	trachea

Aspiration hazard

Not available.

Information on likely routes of exposure :Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact :No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation:No specific data.

Skin contact :No specific data.

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects :Not available.

Potential delayed effects :Not available.

long-term exposure

Potential immediate effects :Not available.

Potential delayed effects :Not available.

Potential chronic health effects

Not available.

General :No known significant effects or critical hazards.

Carcinogenicity :No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects :No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

12. ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
3-iodo-2-propynyl butylcarbamate (IPBC)	Acute EC50 0.022 mg/l	Algae- Scenedesmus subspicatus	72 hours
	Acute EC50 0.16 mg/l	Crustaceans - Daphnia magna	48 hours
	Acute LC50 0.067 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 70 ppb Fresh water	Fish - Oncorhynchus mykiss Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3-iodo-2-propynyl	-	-	Readily

butylcarbamate (IPBC)			
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Bioaccumulative potential: Not available.

Mobility in soil

Soil/water partition coefficient (KOC): Not available.

Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATION

Disposal Methods: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

Additional information

ADR / RID :

Special precautions for user : transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

15. REGULATORY INFORMATION

Singapore - hazardous chemicals under government control

None.

16. OTHER INFORMATION

Key to abbreviations :

- **ATE** = Acute Toxicity Estimate
- **BCF** = Bioconcentration Factor
- **GHS** = Globally Harmonized System of Classification and Labelling of Chemicals
- **IATA** = International Air Transport Association
- **IBC** = Intermediate Bulk Container
- **IMDG** = International Maritime Dangerous Goods
- **LogPow** = logarithm of the octanol/water partition coefficient
- **MARPOL** = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- **UN** = United Nations.

References :Not available.

NOTES

PT.INDOWIJAYA SAKTI TEGUH has a responsibility to take reasonable care for our own health and safety and the health and safety of others who may be affected by our acts or omissions. This M.S.D.S. at the date of issue has Health and Safety Information of the product, and how to safely handle and use this product in the workplace.

All information given is our best knowledge, and because we cannot anticipate or control the conditions of the end use of this products, prior to usage, each user must determine by reviewing this M.S.D.S, Safe Handling and usage of this products in the Workplace.

PT.INDOWIJAYA SAKTI TEGUH believe this information to be reliable, and in good faith, but no guarantees or warranties of any kind are made as to its accuracy, suitability to particulate applications due to variations in methods, conditions and equipment. When PT.INDOWIJAYA SAKTI TEGUH provides information and service involving skill, assistance, judgment, recommendations, and or advise this is done on the best of our knowledge only; information is not be relied upon.

Full scale testing and performance of the product is the responsibility of the end user. For further information or classification of certain points to ensure that the user has made a proper assessment and reasonable precautions have been applied, please contact PT.INDOWIJAYA SAKTI TEGUH