



PT. Indowijaya Sakti Teguh

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# **MATERIAL SAFETY DATA SHEET**

## **PUFFIN METAL PAINT WB**

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## TRADE NAME : PUFFIN METAL PAINT WB

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### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

#### Identification of substance or preparation

Chemical description : Acrylic Emulsion  
Recommendation use : Direct to metalpaint/coatings

#### Company /undertaking identificaation suplier :

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### 2. HAZARD IDENTIFICATION

Based on available information from raw material supplier and testing result , not classified as hazardous.  
Not classified as Dangerous Goods.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

**Substance/Mixture** : Mixture  
**Other means of identification** : Not Available  
**CAS number/other identifiers**  
**CAS number** : Not applicable  
**EC number** : Mixture  
**Product code** :

Ingredientsname	%	Casnumber
3-iodo-2-propynyl butylcarbamate(IPBC)	<0.1	55406-53-6

#### 4. FIRST AID MEASURES

**Inhalation :** Remove victim from area of exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm, keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin Contact :** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Eye Contact :** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs

**Ingestion :** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur

#### **Most Important symptoms and effects, both acute and delayed 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

#### **Overexposure signs/ symptoms**

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

#### **Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** : No case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment

**Protecting of first-aiders** : No action shall be taken involving any personal risk or without suitable training

#### 5. FIRE FIGHTING MEASURES

##### **Hazard from combustion products:**

Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes.

##### **Precautions for fire fighters and special protective equipment:**

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**Suitable Extinguishing Media:** Not combustible, however, material is involved in a fire use : Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

### **Emergency procedures:**

If contamination of sewers or waterways has occurred advise local emergency services.

### **For non emergency personnel:**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

### **For emergency responders:**

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### **Environmental precautions:**

Avoid dispersal of spilt material and run off and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

### **Methods and materials for containment and clean up:**

**SMALL SPILLS:** Slippery when wet. Avoid accident, clean up immediately. Collect in a container for disposal via special chemical waste collection.

**LARGE SPILLS:** Slippery when spilt. Avoid accident, clean up immediately. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

## 7. HANDLING AND STORAGE

### **Conditions for safe storage:**

Store in cool place and out of direct sunlight. Keep containers closed when not in use – check regularly for leaks.

### **Precaution for safe handling :**

Keep out of reach of children. Avoid eye contact and repeated or prolonged skin contact.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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 ventilations work process equipments 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 hand, forearms and the thorough after handling chemical products be, before eating, smoking and using the lavatory and at the end of work
- Eye/face protection** : Safety eyewear complying to EN 166 Should Be a When a risk assessment was done

### Exposure controls

Provide adequate ventilation, and local exhaust as needed.

**Respiratory protection:** Wear respiratory protection.

Hand protection: Protective gloves

**Eye protection:** Tightly sealed safety glasses.

**Body protection:** Wear suitable protective clothing and shoes.

### General protection and hygiene measures:

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. When using does not eat, drink or smoke. Change contaminated clothing. Wash hands before breaks and after work. Work place should be equipped with a shower and an eye rinsing apparatus.

**MANUFACTURE, PACKAGING AND TRANSPORT:** Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and protective equipment before storage or re-use.

**FOR CONSUMER USE:** If there is a risk of eye contact and repeated or prolonged skin contact wear gloves and safety glasses. Wash hands after use

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance and Physical State</b>	: Liquid
<b>Colour</b>	: Various
<b>Odour</b>	: Characteristic
<b>Odour Threshold</b>	: Not Available
<b>PH</b>	: 8-9
<b>Melting/freezing point</b>	: 0
<b>Boiling point</b>	: Lowest known value: 100°C (212°F) (water). Weighted average: 105.66°C (222.2°F)
<b>Flash Point</b>	: Not Available
<b>Burning time</b>	: Not applicable
<b>Burning rate</b>	: Not applicable
<b>Evaporation rate</b>	: Highest known value: 0.36 (water) Weighted average: 0.35 compared with butyl acetate
<b>Flammability (Solid, Gas)</b>	: Not applicable
<b>Lower and Upper explosive (flammable limits)</b>	: 0.6-12.6%
<b>Vapour pressure</b>	: Highest known value 3.2 kPa (23.8 mmHg) (at 20°C) (water). Weighted average: 3.05 kPa (22.88 mm Hg) (at 20°C)
<b>Vapour density</b>	: 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)
<b>Relative density</b>	: 1.314 to 1.384 g/cm <sup>3</sup>

<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Solubility in water</b>	: Not available
<b>Partition coefficient (Noctanol/water)</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Not available
<b>Decomposition temperature</b>	: Not available.
<b>SADT</b>	: Not available.
<b>Viscosity</b>	: Dynamic: Highest known value: 43.43 cP (propylene glycol) Weighted average: 28.02 cP Kinematic (40C): >20.5 cSt

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Not specific test data related to reactivity available for this product or its ingredients
<b>Chemical stability</b>	: The product is stable
<b>Possibility of Hazardous Reaction</b>	: Under normal conditions of storage and use, hazardous reactions will not occur
<b>Conditions to avoid</b>	: No specific data
<b>Incompatible materials</b>	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced
<b>SADT</b>	: 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-propynylbutylcarbamate(IPBC)	Category1	Not determined	trachea

**Aspiration Hazard**

**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.

## 12. ECOLOGICAL INFORMATION

Toxicity :

Product/ingredientname	Result	Species	Exposure
3-iodo-2-propynyl butylcarbamate(IPBC)	AcuteEC500.022 mg/l	Algae- Scenedesmus subspicatus	72 hours
	AcuteEC500.16mg/l	Crustaceans - Daphnia magna	48 hours
	AcuteLC500.067 mg/l	Fish - Oncorhynchus mykiss	96 hours
	ChronicNOEC70ppb Fresh water	Fish - Oncorhynchus mykiss Juvenile (Fledgling, Hatchling, Weanling)	96 hours

### Persistence/degradability

Product/ingredientname	Aquatic half-life	Photolysis	Biodegradability
3-iodo-2-propynyl butylcarbamate(IPBC)	-	-	Readily

### Bioaccumulative potential:

Not available

### Mobility in soil

**Soil/water Partition:** Not Available

**Other adverse effect:** No known significant effects or critical hazards

## 13. DISPOSAL CONSIDERATIONS

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.

**For small quantities:** Do not pour leftover paint down the drain. Unwanted paint should be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collection. Empty paint containers should be left open in a well ventilated area to dry out. When dry recycle the container via steel can recycling programs. Disposal of empty paint containers via domestic recycling programs may differ between local authorities. Check

with your local council first.

**For large quantities:** Refer to waste management authority. Dispose of material through a licensed waste contractor. Normally suitable for disposal at approved land waste site.

#### 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 I of Marpol and the IBC Code :** Not available.

#### 15. REGULATORY INFORMATION

Classification: : Based on available information, not classified as hazardous

SUBSTANCE

Poisons Schedule : Not allocated

## 16. OTHER INFORMATION

### Key to abbreviations:

<b>ATE</b>	:	Acute Toxicity Estimate
<b>BCF</b>	:	Bio Concentration Factor
<b>GHS</b>	:	Globally Harmonized System of classification and labelling of chemicals
<b>IATA</b>	:	International Air Transport Association
<b>IBC</b>	:	Intermediate Bulk Container
<b>IMDG</b>	:	International Maritime Dangerous Goods
<b>LogPow</b>	:	Logarithm of the octanol/water partition coefficient
<b>MARPOL</b>	:	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
<b>UN</b>	:	United Nations.

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging) Regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control the user is responsible for ensuring that the requirements of relevant legislation are complied with. TP-03

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

## **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

