

PT. IndowijayaSaktiTeguh

Jl. Pangeran Jayakarta 121/3-4, Jakarta Pusat <u>www.puffinpaint.com</u> Telp : 021- 62313238

# MATERIAL SAFETY DATA SHEET PUFFIN HELMET BASECOAT ACYRLIC ENAMEL

## **TRADE NAME : PUFFIN HELMET BASECOAT ACYRLIC ENAMEL**

#### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Identification of Substance or Preparation Chemical description : Acrylic Solvent base

Recommendation : Paint

#### **Company / Undertaking Identificaation Supplier**

PT.Indowijaya Sakti TeguhJI.Pangeran Jayakarta No. 121/3-4, Jakarta Pusat, 10730. IndonesiaPhone:+6221 6231 3238WA:+6287873743534 (WA messages only)Email:sales.support@puffinpaint.com

#### 2. HAZARD IDENTIFICATION

Classification of the substance or mixture

- FLAMMABLE LIQUIDS Category 3
- ACUTE TOXICITY (inhalation) Category 4
- SERIOUS EYE DAMAGE/EYE IRRITATION Category 2A
- SKIN SENSITISATION Category 1
- SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE (Respiratory tract irritation)
   Category 3

**GHS Label elements** 

Hazard pictograms :



Signal word : Warning.

#### Hazard statements:

Flammable liquid and vapour. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects

#### **Precautionary statements**

**Prevention :** Avoid breathing vapour. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only outdoors or in a wellventilated area. Avoid release to the environment. Wash hands thoroughly after handling

**Response:** Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Store locked up.Store in a well-ventilated place. Keep cool

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations

Other hazards which do not result in classification: None known

#### 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 : 44522

Ingredients name	%	Cas number
3-iodo-2-propynyl butylcarbamate (IPBC	<0.1	55406-53-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8. Chemical formula: Not applicable

## 4. FIRST AID MEASURES

#### Description of first aid measures

- 1. 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
- 2. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In 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.
- **3.** Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- 4. 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 Over-exposure 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 :** In 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.

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

## 5. FIRE FIGHTING MEASURES

#### **Extinguishing media**

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known

**Specific hazards arising from the chemical :** In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products: Decomposition products may include the following materials:

carbondioxide,carbon monoxide ,nitrogen oxides,metal oxide/oxides

**Special protective actions for fire-fighters :** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**For non-emergency personel :** 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 runoff 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 material for containment and cleaning up

**Small spill :** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill :** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local

regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities :** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 8. EXPOSURE CONTROLS 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 eye wear 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

Appearaance	
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 (flam	mable) limits : 0.6 - 12.6%
Lower and upper explosive (flam Vapour pressure	mable) limits : 0.6 - 12.6% : Highest known value 3.2 kPa (23.8 mm Hg) (at 20°C)
	: Highest known value 3.2 kPa (23.8 mm Hg) (at 20°C)
	: Highest known value 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.05 kPa (22.88 mm Hg) (at
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Vapour pressure Vapour density	<ul> <li>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)</li> <li>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)</li> </ul>
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Vapour pressure Vapour density Relative density Solubility	<ul> <li>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)</li> <li>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) :1.314 to 1.384 g/cm<sup>3</sup></li> <li>Easily soluble in the following materials: cold water and hot water.</li> <li>Not available</li> </ul>
Vapour pressure Vapour density Relative density Solubility Solubility in water	<ul> <li>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)</li> <li>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) :1.314 to 1.384 g/cm<sup>3</sup></li> <li>Easily soluble in the following materials: cold water and hot water.</li> <li>Not available</li> </ul>
Vapour pressure Vapour density Relative density Solubility Solubility in water Partition coefficient: noctanol/wa	<ul> <li>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)</li> <li>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) :1.314 to 1.384 g/cm<sup>3</sup></li> <li>Easily soluble in the following materials: cold water and hot water.</li> <li>Not available</li> </ul>

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	Species	Result
	exposure		
3-iodo-2-propynyl	skin	Mammal - species	Sensitising
butylcarbamate (IPBC)		unspecified	-

#### **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	Acute EC50 0.022	Algae-	72 hours
butylcarbamate (IPBC)	mg/l	Scenedesmussubspicatus	
	Acute EC50 0.16 mg/l	Crustaceans - Daphnia	48 hours
		magna	
	Acute LC50 0.067	Fish -	96 hours
	mg/l	Oncorhynchusmykiss	
	Chronic NOEC 70 ppb	Fish -	96 hours
	Fresh water	Oncorhynchusmykiss	
		Juvenile (Fledgling,	
		Hatchling, Weanling)	

#### Persistence/degradability

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

## **Bioaccumulative potential:** Not available.

Mobility in soil Soil/water partition: Not available.

coefficient (KOC)

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.

	UN	IMDG	ΙΑΤΑ
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	-	-	-

### 14. TRANSPORT 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. <u>REGULATORY INFORMATION</u> <u>Singapore - hazardous chemicals under government control</u>

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.