



PT. IndowijayaSaktiTeguh

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# **MATERIAL SAFETY DATA SHEET**

## **PUFFIN HIGH TEMPERATURE 600**

# TRADE NAME : PUFFIN HIGH TEMPERATURE 600

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## 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

### Identification of Substance or Preparation

Chemical description : Silicone paint  
Recommendation : High temperature paint

### Company / Undertaking identification Suplier

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## 2. HAZARD IDENTIFICATION

OSHA/HCS status:This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Classification of the substance or mixture

Product definition : Mixture

#### Classification

FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (oral) - Category 2

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

REPRODUCTIVE TOXICITY (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 2

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

### 2.1.3. Label elements



**Symbol : Danger**

H226 - Flammable liquid and vapor.H319 - Causes serious eye irritation.H315 - Causes skin irritation.H335 - May cause respiratory irritation.H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs)H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary statements**

P280 - Wear protective gloves. Wear eye or face protection.P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.P233 - Keep container tightly closed.P271 - Use only outdoors or in a well-ventilated area.P273 - Avoid release to the environment.P260 - Do not breathe vapor or spray.P270 - Do not eat, drink or smoke when using this product.P264 - Wash hands thoroughly after handling

#### **Response**

P314 - Get medical attention if you feel unwell.P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.P332 + P313 - If skin irritation occurs: Get medical attention.P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rinsing.P337 + P313 - If eye irritation persists: Get medical attention.

#### **Storage :**

P405 - Store locked up.P403 - Store in a well-ventilated place.P235 - Keep cool.

**Other hazards which do not result in classification:** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Ingredient name	CAS Number	Ratio (%)
Mica	12001-26-2	<15
Naphtha (petroleum) Naphtha (petroleum), hydrodesulfurized heavy, (<0.1% Benzene)	64742-82-1	<15
Solvent naphtha (petroleum)	64742-95-6	<10
Xylene	1330-20-7	10-20
Ethyl benzene	100-41-4	<10
Butanol	71-36-3	1-5

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 (SYMPTOMS)

#### 4.1 Description of necessary first aid measures

- A. **Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- B. **Skin contact :** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse
- C. **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband

D. **Ingestion:** Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### 4.2 Most important symptoms/effects, 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 : May be fatal if swallowed and enters airways

##### **Over-exposure signs/symptoms**

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

reduced fetal weight increase in fetal death skeletal malformations

Skin contact : Adverse symptoms may include the following reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

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

Note to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

## **5. FIRE FIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media: water spray(fog), foam, extinguishing powder C02

Unsuitable extinguishing media : Do not use water jet

### **5.2. Special hazards arising from the substance or mixture**

Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain

**5.3 Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides

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

Special precautions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool

## **6. ACCIDENTAL RELEASE MEASURES**

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

A. 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment..

B. 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".

C. 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### **6.3 Methods and material for containment and cleaning up**

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. 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. Contaminated absorbent

material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal

## **7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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 a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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

### 8.1. Control parameters

Component	Expose limits
xylene	Menteri Ketenagakerjaan Republik Indonesia (Indonesia, 4/2018). NAB: 434 mg/m <sup>3</sup> 8 jam. NAB: 100 BDS 8 jam. PSD: 651 mg/m <sup>3</sup> 15 menit. PSD: 150 BDS 15 menit..
Ethyl benzene	Menteri Ketenagakerjaan Republik Indonesia (Indonesia, 4/2018). NAB: 20 BDS 8 jam
Naphtha (petroleum), hydrodesulfurized heavy, (<0.1% Benzene)	Menteri Ketenagakerjaan Republik Indonesia (Indonesia, 9/2014). NAB: 525 mg/m <sup>3</sup> 8 jam. NAB: 100 BDS 8 jam.
butanol	Menteri Ketenagakerjaan Republik Indonesia (Indonesia, 4/2018). NAB: 20 BDS 8 jam

Occupational exposure limits

### 8.2 . Appropriate engineering controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment

### 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

### 8.3 Personal protective equipment:

#### Individual protection measures

#### 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

### **Eye/ face protection:**

Safety eyewear complying to EN 166 should be used when a risk asses 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead

### **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.

May be used, gloves (breakthrough time) 4 - 8 hours: neoprene

Not recommended, gloves (breakthrough time) < 1 hour: butyl rubber, PVC

Recommended, gloves (breakthrough time) > 8 hours: fluor rubber, nitrile rubber, 4H,

Teflon, polyvinyl alcohol (PVA) 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### **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

### **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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. Information on basic physical and chemical properties

<b>9.1 Appearance</b>	
<b>Physical state</b>	: Liquid.
<b>Colour</b>	: silver grey
<b>9.2 Odour</b>	: aromatic
<b>9.3 Odour threshold</b>	: Not Available
<b>9.4 PH</b>	: Not Applicable
<b>9.5 Melting/freezing point</b>	: Not Applicable
<b>9.6 Boiling point/boiling range</b>	:: >90°C (>194°F)
<b>9.7 Flash point</b>	: Closed cup: 18°C (64.4°F)
<b>9.8 Evaporation rate</b>	: Not Available
<b>9.9 Flamability (solid ,gas)</b>	: Not Available
<b>9.10 Upper and lower explosive (flammability)limit</b>	: 1.2 - 8%
<b>9.11 vapour pressure</b>	: Not Available
<b>9.12 Solubility</b>	: Insoluble in the following materials: cold water and hot water
<b>Solubility in water</b>	: Not Available
<b>9.13 Vapour density</b>	: Not Available
<b>9.14 Relative density</b>	: 1.88 g/cm <sup>2</sup>
<b>9.15 Partition coefficient noctanol/water</b>	: Not Available
<b>9.16 Auto-ignition temperature</b>	: 303 to 530°C
<b>9.17 Decomposition temperature SADT</b>	: Not Available
<b>9.18 Viscosity</b>	: Kinematic (23 °C): 0,612 cm <sup>2</sup> /s (61,2 mm <sup>2</sup> /s) Kinematic (40°C (104°F)): >0,205 cm <sup>2</sup> /s (>20,5 mm <sup>2</sup> /s)
<b>9.19 Molecucular weigh</b>	: Not Applicable

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients
<b>10.2 Chemical Stability</b>	: The product is stable
<b>10.3 Possibility of Hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur
<b>10.4 Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition

- 10.5 Incompatible materials :** Keep away from the following materials to prevent strong exothermic reactions oxidising agents, strongalkalis, strong acid.
- 10.6 Hazardous Decomposition Products:** Under normal conditions of storage and use,hazardous decomposition products be produced

## **11. TOXICOLOGICAL INFORMATION**

**11.1 Information on likely routes of exposure** : Not available.

### **Potential acute health effects**

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : No known significant effects or critical hazards.

**Ingestion** : May be fatal if swallowed and enter waterways

### **Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation** : Adverse symptoms may include the following:  
reduced fetal weightincrease in fetal death skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
reduced fetal weightincrease in fetal deathsskeletal malformations,nousea or vormiting

**Skin contact** : Adverse symptoms may include the following:  
reduced fetal weightincrease in fetal deathsskeletal malformations

**Eye contact** : 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	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure
Mutagenicity	: No known significant effects or critical hazards
Teratogenicity	: Suspected of damaging an unborn child
Developmental effects	: No known significant effects or critical hazards.
Fertil. ATE Value ity effects	: No known significant effects or critical hazards

## Numerical measures of Acute toxicity estimates

Component	
Oral	77999.5 mg/kg
Demal	26829.3 mg/kg
Inhalation (vapours)	209.5 mg/l

## 11.2 Health hazards :

### toxicity

Component	Result	Species	Dosage	Ekspposure
xylene	LC50 Inhalation Vapour	Rat	4000 mg/l	4 hours
	LD50 Oral	Rat	3500 mg/kg	
	TDL <sub>o</sub> Dermal	Rabbit	>5000 mg/kg	
Ethyl benzene	LC50 Inhalation gas	Rat-male	4000 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	
	LD50 Oral	Rat	3500 mg/kg	

**Irritation /corrosion : Not available**

**Sensitization : Not Available**

**Mutagenicity : Not Available**

**Carcinogenicity : Not available.**

**Reproductive toxicity : Not available**

**Teratogenicity : Not available.**

**Specific target organ toxicity (single exposure)**

Component	Category	Route of exposure	Target organs
xylene	Category 3	Not applicable.	Respiratory tract irritation
Solvent naphta	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

**Specific target organ toxicity (repeated exposure)**

Component	Category	Route of exposure	Target organs
Ethyl benzene	Category 2	Not determined	hearing organ

**Aspiration hazard**

Component	Result
Xylene	ASPIRATION HAZARD category 1
Solvent naphta	ASPIRATION HAZARD category 1

**12. ECOLOGICAL INFORMATION**

**12.1. Aquatic and terrestrial toxicity .**

**toxicity :**

Product/ingredient name	Result	Species	Exposure (hour)
Ethyl benzene	Acute EC50 7.2 mg/l	Algae	48
	Acute EC50 2.93 mg/l	Daphnia	48
	Acute EC50 4.2mg/l	Fish	96

Solvent naphta	Acute EC50 <10 mg/l	Daphnia	48
	Acute IC50 <10 mg/l	Algae	72
	Acute LC50 <10 mg/l	Fish	96

## 12.2. Persistence and degradability

Product/ingredient name	Aquatic –half life	Photolysis	Biogradability
Ethyl benzene			readily
Xylene			Readily
Solvent naphta			Not readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	8.1 to 25.9	low
Solvent naphta		10 to 2500	high

## 12.4 Mobility in soil

Soil / water partition coefficient (KOC) : No data available

## 12.5 Other adverse effects

No known significant effects or critical hazards..

## 13. DISPOSAL CONSIDERATION

### 13.1 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.

### 13.2 Disposal precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers

## 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR	UN 1263
IMDG	UN 1263
IATA	UN 126314.2 UN

### 14.2 PropenShipingname

ADR	Paint
IMDG	Paint
IATA	Paint

### 14.3 Transport hazard class(es)

ADR	3
IMDG	3
IATA	3

### 14.4 Packing Group

ADR	111
IMDG	111
IATA	111

### 14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

### 14.6 Additional information

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 accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation



## **15. REGULATORY INFORMATION**

- 15.1 Regulation according to ISHA :  
ISHA article 37 (Harmful substances prohibited from manufacture):None of the components are listed.  
ISHA article 38 (Harmful substances requiring permission):  
None of the components are listed.
- 15.2 Regulation according to AREC & CCA  
AREC Toxic chemicals :Not available  
AREC Article 32 (Banned) :None of the components are listed.  
15.1 AREC Article 32 (Restricted) :  
None of the components are listed
- 15.3 AREC Article 17 (TRI)  
The following components are listed: Xylene; Ethylbenzene; Zinc and its compounds;Copper and its compounds; Zinc and its compounds; Copper and its compound
- 15.4 Dangerous Materials Safety Management Act :  
Class: Class 4 - Flammable Liquid  
Item: 4. Class 2 petroleums - Water-insoluble liquid  
Threshold: 1000 L  
Danger category: III  
Signal word: Contact with sources of ignition prohibited
- 15.5 Wastes regulation : Dispose of contents and container in accordance with all local, regional, international national
- 15.6 Regulation according to other foreign laws  
Europe inventory : At least one component is not listed.  
United States inventory (TSCA 8b): Not determined  
Japan inventory : Japan inventory (ENCS): Not determined  
Japan inventory (ISHL): Not determined.  
Safety, health and environmental : No known specific national and/or regional regulations applicable to this product (including its ingredients).

## **16. OTHER INFORMATION**

**References : This product does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Anti-fouling Systems on Ships as adopted by IMO in October 2001 (IMO document AFS/CONF/26).**

**Date of issue/Date of revision**

**Version**

**Date of printing**

**Indicates information that has changed from previously issued version**

**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**

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 ase contact PT.INDOWIJAYA SAKTI TEGUH.