

**Seng Fong Paints Pte Ltd**  
**Safety Data Sheet**

**Product Name: Tiger Brand Thinner 3A**

**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

Intended Use : See Product Data Sheet  
Name of Company : Seng Fong Paints Pte Ltd  
Address : No 38, Kian Teck Road, Singapore 628788  
Telephone : + 65 62640100  
Fax : + 65 62640277

**2. HAZARDS IDENTIFICATION OF THE PREPARATION**

**2.1 Product classification according to SS586 Part 2 and Part 3 (2014).**

**Physical Hazards**

Flammable Liquids Category 2

**Health Hazards**

Skin Corrosion /Irritation Category 2  
Serious Eye Damage/Eye Irritation Category 2A  
Reproductive toxicity Category 1B  
Specific Target Organ Toxicity  
(Single Exposure) Category 1 (Central Nervous System)  
Specific Target Organ Toxicity  
(Single Exposure) Category 3 (Respiratory Tract Irritation and Narcotic Effects)  
Specific Target Organ Toxicity  
(Repeated Exposure) Category 1 (Central Nervous Systems)  
Aspiration Hazard Category 1

**Environmental Hazards**

Acute Toxicity Category 2  
Chronic Toxicity Category 3

**2.2 GHS Label Elements**

**Hazard Pictograms:**



**Signal Word : DANGER**

**Hazard Statements**

H225: Highly flammable liquid and vapour.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H360: May damage fertility or the unborn child.  
H370: Causes damage to organs.

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- H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H304: May be fatal if swallowed and enters passageways.  
H401: Toxic to aquatic life.  
H412: Harmful to aquatic life with long lasting effects.

### **Precautionary Statements**

- P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting equipment.  
P242: Use only non-sparking tools.  
P243: Take action to prevent static discharges.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P271: Use only outdoors or in a well ventilated areas.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

### **Response Statements**

- P301+P310: If SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.  
P303+P352: If ON SKIN (or hair): Wash with plenty of soap and water.  
P303+P361+P353: If ON Skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340: If INHALED: Remove victim to fresh air and keep comfortable for breathing.  
P305+P351+P338: If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P308+P313: If exposed or concerned: Get medical advice/attention.  
P312: Call a POISON CENTRE or doctor/physician if you feel unwell.  
P331: Do NOT induce vomiting.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash before reuse.  
P370+P378: In case of fire: Use appropriate media for extinction.

### **Storage Statements**

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

### **Disposal Statements**

- P501: Dispose of contents/container in accordance with local and national regulations.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient Name</b>	<b>CAS Number</b>	<b>Weight %</b>
Toluene	108-88-3	50 to 100
Butyl Acetate	123-86-4	10 to 25
Ethylene glycol monobutyl ether	111-76-2	2.5 to 10

### 4. FIRST AID MEASURES

#### General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### Inhalation

Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

#### Eye Contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

#### Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

#### Ingestion

If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Recommended: Alcohol resistant foam, CO<sub>2</sub>, Powders,

Not to be used: Waterjet

Recommendations: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire-fighting to enter drains or water courses.

### 6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillage with non-combustible adsorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

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## **7. HANDLING AND STORAGE**

### **Handling**

Vapours are heavier than air and may spread along floors. Vapor may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

### **Preparation may charge electrostatically**

Always use earthing leads when transferring from one container another. Operators should wear anti-static footwear, and floors should be of the conducting type.

### **Container Storage**

Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Always keep in containers of same material as the original one. Never use pressure to empty as the container is not a pressure vessel.

### **Skin And Eye Contact**

Avoid skin and eye contact. Avoid inhalation of vapor and spray mist.

### **Application Areas**

Smoking, eating and drinking should be prohibited in application areas. For personal protection see Section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapor in all cases. In such circumstances should wear a compressed aired respirator during the spraying process until such time as the particulates and solvent vapor concentration has fallen below the exposure limits.

### **Storage**

Store in accordance with local rules and legislation. Observe label precautions. Store between 5 and 30°C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Measures: Provide adequate ventilation. Where reasonably practicable this should be achieved by use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentration of particulates and solvent vapor below the PEL, suitable respiratory protection must be worn.

### **Ingredient**

Toluene

### **CAS No**

1330-20-7

### **Control Parameters/OEL**

Workplace Safety and Health Act (Singapore, 2/2006).  
Singapore PEL Long Term: 50 ppm (188 mg/m<sup>3</sup>)  
ACGIH 2019  
TWA: 20 ppm; A4, BEI

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Butyl Acetate	123-86-4	Workplace Safety and Health Act (Singapore, 2/2006) Singapore PEL Long Term: 150 ppm (713 mg/m <sup>3</sup> ) Singapore PEL Short Term: 200 ppm (950 mg/m <sup>3</sup> )
Ethylene glycol monobutyl ether	111-76-2	Workplace Safety and Health Act (Singapore, 2/2006). Singapore PEL Long Term: 25 ppm (121 mg/m <sup>3</sup> )

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Flash point	:	7°C
Specific gravity at 30°C	:	0.863 to 0.893 g/cm <sup>3</sup> (typical values)
Vapor density	:	Heavier than air
Colour	:	See colour card
Flammable in air (% by volume)	:	Lower limit: 1.20; Upper limit: 10.60
Solubility in water	:	Not miscible with water

### 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions. (See Section 7) When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smokes, oxides of nitrogen. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. The toxicity of the following ingredients were used to assess the health hazards of the preparation.

#### Acute Toxicity

Ingredient	Oral LD50	Skin LD50	Inhalation LC50
Toluene	>5000 mg/kg Rat	>5000 mg/kg Rabbit	>20 mg/L (4hr) Rat
Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	390 ppm (4hr) Rat
Ethylene glycol monobutyl ether	1300 mg/kg Rat	>2000 mg/kg Guinea Pig	>3.1 mg/l (1hr) Guinea Pig

#### Irritation/Corrosion

Ingredient	Skin Corrosion/Irritation	Serious Eye Damage/Irritation
Toluene	Category 2	Category 2B
Ethylene glycol monobutyl ether	Category 2	Category 2A

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**Respiration/Skin Sensitisation**

Not Available

**Germ Cell Mutagenicity**

Not Available

**Carcinogenicity**

Not Available

**Reproductive Toxicity**

Ingredient	Hazard Classification	Remarks
Toluene	Category 1A	---

**Specific Target Organ Toxicity Following Single Exposure**

Ingredient	Hazard Classification	Target Organs
Toluene	Category 1	Central nervous system. Vapours may cause drowsiness and dizziness. Inhalation of vapours or mists may cause irritation to the respiratory system.
Butyl Acetate	Category 3	May cause respiratory irritation.

**Specific Target Organ Toxicity Following Repeated Exposure**

Ingredient	Hazard Classification	Target Organs
Toluene	Cat 1	Concentrated, deliberated and prolonged inhalation may cause brain and nervous system damage.
Isopropyl Alcohol	Category 2	Blood vessels, liver and spleen.

**Aspiration Hazard**

Ingredient	Hazard Classification	Remarks
Toluene	Category 1	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can fatal.

**12. ECOLOGICAL INFORMATION**

There are no data available on the preparation itself. The product should not be allowed to enter drains or water courses. The toxicity of the ingredients were used to assess the environmental hazards of the preparation.

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**Toxicity**

Ingredient	Results	Species	Exposure
Toluene	LC50: 5.5 mg/l	Oncorhynchus mykiss	96 hrs
Butyl Acetate	LC50: 18 mg/l	Flathead Minnow	96 hrs
Ethylene glycol monobutyl ether	LC50: 1464 mg/l	Oncorhynchus mykiss	96 hrs

**Persistence/Degradability**

Ingredient	Half-life	Photolysis	Biodegradability
Toluene	---	---	81% (5 days)
Butyl Acetate	---	---	Readily
Ethylene glycol monobutyl ether	---	---	90.4% (28 days)

**Bioaccumulative Potential**

Ingredient	Partition Coefficient	BCF	Potential
Toluene	Log Pow : 2.73	90	Does not significantly
Butyl Acetate	Low Pow : 2.3	---	---
Ethylene glycol monobutyl ether	Log Pow : 0.81	3.1	---

**Mobility In Soil**

Ingredient	Remarks
Toluene	Floats on water. If it enters soil, one or more constituents will or maybe mobile and may contaminate groundwater.
Butyl Acetate	Will likely be mobile in the environment due to its volatility.
Ethylene glycol monobutyl ether	Potential for mobility in soil is high. Koc : 67 (estimated)

**Other Adverse Effects**

Not Available

**13. DISPOSAL CONSIDERATIONS**

Do not allow into drains or water courses. Waste and emptied containers should be disposed of according to the local rules and legislation.

**14. TRANSPORT INFORMATION**

Transport only in accordance with ADR for road, RID for rail and IMDG for sea transport.

**ADR/RID**

UN Number                    1263  
Proper Shipping Name      Paint Related Material  
Class                            3

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Packing Group	II
Label	3
Hazard Identification No	33

**IMDG**

UN Number	1263
Proper Shipping Name	Paint Related Material
Class	3
Packing Group	II
Label	3
Emergency Schedules	F-E, S-E

**15. REGULATORY INFORMATION**

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations: This product is subject to the SDS, labelling, PEL and other requirements in the Acts/Regulations.

**16. OTHER INFORMATION**

**Selected Abbreviations and Acronyms**

ACGIH: American Conference of Governmental Industrial Hygienist

The information of this SDS is based on the present state of our knowledge. As the users' working conditions are beyond our knowledge and control. The product is not to be used for other purpose than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not be considered as a guarantee of the products' properties.

**Prepared/Last Amended On: 28-September-2021.**

**Valid for 5 years from above date.**

**This SDS will be amended when necessary based on the latest updates provided by raw material suppliers.**