

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.

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Thinner 3A

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.

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Thinner 3A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Weight %
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, CO₂, 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.

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Thinner 3A

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/m³)
ACGIH 2019
TWA: 20 ppm; A4, BEI

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Thinner 3A

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Flash point	:	7°C
Specific gravity at 30°C	:	0.863 to 0.893 g/cm ³ (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

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Thinner 3A

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.

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Thinner 3A

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

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Thinner 3A

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.