

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Toluene

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

Acute Toxicity (Inhalation) Category 4
Skin Corrosion /Irritation Category 2
Serious Eye Damage/Irritation Category 2B
Reproductive toxicity Category 1A
Specific Target Organ Toxicity (Single Exposure) Category 1 (Central Nervous System)
Specific Target Organ Toxicity (Single Exposure) Category 3 (Respiratory System and Narcotics Effects)
Specific Target Organ Toxicity (Repeated Exposure) Category 1 (Central Nervous System, Kidneys, Liver)
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 vapour and liquid.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Toluene

- H360: May damage fertility or the unborn child.
- H370: Causes damage to organs.
- H336: May cause drowsiness or dizziness.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H304: May be fatal if swallowed and enters airways.
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with 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 Toluene

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Weight %
Toluene	108-88-3	> 99.5

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 Toluene

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.

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Toluene

<u>Ingredient</u>	<u>CAS No</u>	<u>Control Parameters/OEL</u>
Toluene	1330-20-7	Workplace Safety and Health Act (Singapore, 2/2006). Singapore PEL Long Term: 50 ppm (188 mg/m ³) ACGIH 2019 TWA: 20 ppm; A4, BEI

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Flash point	:	7°C
Specific gravity at 30°C	:	0.87 g/cm ³ (typical value)
Vapor density	:	Heavier than air
Colour	:	See colour card
Flammable in air (% by volume)	:	Lower limit: 1.2; Upper limit: 7.1
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

Irritation/Corrosion

Ingredient	Skin Corrosion/Irritation	Serious Eye Damage/Irritation
Toluene	Category 2	Category 2B

Respiration/Skin Sensitisation

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Toluene

Reproductive Toxicity

Ingredient	Hazard Classification	Remarks
Toluene	Category 1A	---

Specific Target Organ Toxicity Following Single Exposure

Ingredient	Hazard Classification	Remarks
Toluene	Category 1	Central nervous system. Vapours may cause drowsiness and dizziness. Inhalation of vapours or mists may cause irritation to the respiratory system.

Specific Target Organ Toxicity Following Repeated Exposure

Ingredient	Hazard Classification	Remarks
Toluene	Category 1	Concentrated, deliberated and prolonged inhalation may cause brain and nervous system damage.

Aspiration Hazard

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

Toxicity

Ingredient	Results	Species	Exposure
Toluene	LC50: 5.5 mg/l	Oncorhynchus mykiss	96 hrs

Persistence/Degradability

Ingredient	Half-life	Photolysis	Biodegradability
Toluene	---	---	81% (5 days)

Bioaccumulative Potential

Ingredient	Partition Coefficient	BCF	Potential
Toluene	Log Pow : 2.73	90	Not significantly

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Toluene

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.

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 1294
Proper Shipping Name Toluene
Class 3
Packing Group II
Label 3
Hazard Identification No 33

IMDG

UN Number 1294
Proper Shipping Name Toluene
Class 3
Packing Group II
Label 3
Emergency Schedules F-D, 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

Seng Fong Paints Pte Ltd
Safety Data Sheet

Product Name: Tiger Brand Toluene

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.