

Tiger Brand Paint Remover

MATERIAL SAFETY DATA SHEET

Product Name : Tiger Brand Paint Remover
Color / Name : Translucent

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Intended Use : See Technical 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. COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67 / 548 / EEC.

Name	CAS-No.	Conc.Range	Symbol	R-Phrases
Dichloromethane	75-09-2	50 - 100%	T	R20, R22, R40
Methanol	67-56-1	2.5 - 10%	T, F	R11, R23/24/25, R39/23/24/25
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	2.5 - 10%	Xn, N	R10, R65, R66, R67 R51/R53
Butyl Acetate	123-86-4	2.5 - 10%	Xn	R10, R66, R67
n-Butanol	71-36-3	2.5 - 10%	Xi, Xn	R10, R22, R37/38, R41, R67
Xylene	1330-20-7	2.5 - 10%	Xn	R10, R20/21, R38

See full text of phrases in section 16.

3. HAZARDS IDENTIFICATION OF THE PREPARATION

The substances is classified as dangerous according to Directive 67/548/EC and its amendments.

Flammable

Limited evidence of a carcinogenic effect.

Danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Toxic to aquatic organisms. May cause long-term adverse effects in aquatic environment.

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.

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5. FIRE-FIGHTING MEASURES

Extinguishing media

Recommended

Alcohol resistant foam, CO₂, Powders, Water spray

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 vapors. 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.

7. HANDLING AND STORAGE

Handling

Vapors 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 others 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 : Container is not a pressure vessel.

Avoid skin and eye contact. Avoid inhalation of vapor and spray mist. Smoking, eating and drinking should be prohibited in application areas.

Skin Contacted

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 they 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.

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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 OEL, suitable respiratory protection must be worn.

Ingredient

Dichloromethane

Workplace Exposure Limits

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 1060 mg/m³ 15 minutes/minutes. Form: All forms
 STEL: 300 ppm 15 minutes/minutes. Form: All forms
 TWA: 350 mg/m³ 8 hour/hours. Form: All forms
 TWA: 100 ppm 8 hour/hours. Form: All forms

Methanol

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 333 mg/m³ 15 minutes/minutes. Form: All forms
 STEL: 250 ppm 15 minutes/minutes. Form: All forms
 TWA: 266 mg/m³ 8 hour/hours. Form: All forms
 TWA: 200 ppm 8 hour/hours. Form: All forms

Naphtha (petroleum),
 hydrodesulfurized heavy

EH40-WEL (United Kingdom (UK), 1/2005).
 STEL: 850 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 150 ppm 15 minute/minutes. Form: All forms
 TWA: 566 mg/m³ 8 hour/hours. Form: All forms
 TWA: 100 ppm 8 hour/hours. Form: All forms

n-butyl acetate

EH40-WEL (United Kingdom (UK), 1/2005).
 STEL: 966 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 200 ppm 15 minute/minutes. Form: All forms
 TWA: 724 mg/m³ 8 hour/hours. Form: All forms
 TWA: 150 ppm 8 hour/hours. Form: All forms

N-butanol

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 154 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 50 ppm 15 minute/minutes. Form: All forms

Xylene

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 441 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 100 ppm 15 minute/minutes. Form: All forms
 TWA: 220 mg/m³ 8 hour/hours. Form: All forms
 TWA: 50 ppm 8 hour/hours. Form: All forms

Personal Protection

Respiratory Protection :

When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

Hand Protection:

For prolonged or repeated contact, wear suitable gloves.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye Protection :

Use safety eyewear designed to protect against splash of liquids.

Skin Protection:

Personal should wear antistatic clothing made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state :
Flash point : 12°C
Volume Solids : NA
Specific gravity at 30 °C : 1.00 - 1.20 gr/cm³.
Vapor density : Heavier than air
Color : Translucent
Texture : Liquid
Flammable in air(% by volume) : Lower limit : 0.6; Upper limit : 23.0
Solubility in water : Slightly 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.

Exposure to component solvents vapors concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney , liver and central nervous system .Symptoms and signs include headache ; dizziness , fatigue , muscular weakness ,Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

There are no data available on the preparation itself. The product should not be allowed to enter drains or water courses.

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, IMDG for sea and ICAO/IATA for air transport .

International Transport Regulations

Proper shipping name : Paint Related Material
UN Number : 1263
Class : 3
Sub-risk : -
Packing group : II
Label : 3

Additional information

ADR / RID : 1263
Hazard identification number: 30
Special provisions: 640E

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IMDG Emergency schedules (EmS): F-E, S-E
 Marine pollutant: Yes.

IATA :-

15. REGULATORY INFORMATION

In accordance with the Dangerous Preparations Directive 88/379/EEC the product is labeled as follow :

Product is both Toxic (T) and Dangerous To The Environment (N).

R phrases

R10 Flammable.
 R11 Highly Flammable.
 R20 Harmful by inhalation.
 R20/21 Harmful by inhalation and in contact with skin.
 R22 Harmful if swallowed.
 R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 R37 Irritating to respiratory system.
 R37/38 Irritating to respiratory system and skin.
 R38 Irritating to skin.
 R39/23/24/25 Toxic: Danger of of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 R40 Limited evidence of a carcinogenic effect.
 R41 Risk of serious eye damage.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: May cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

S phrases

S21 When using do not smoke.
 S23 Do not breathe spray.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S38 In case of insufficient ventilation, wear suitable respiratory equipment.
 S60 This material and its container must be disposed of as hazardous waste.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

Full text of R phrases appearing in section 2 :

Dichloromethane

R20 Harmful by inhalation.
 R22 Harmful if swallowed.
 R40 Limited evidence of a carcinogenic effect.

Methanol

R11 Highly Flammable.
 R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 R39/23/24/25 Toxic: Danger of of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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Naphtha (petroleum),
hydrodesulfurized heavy

R10 Flammable.
R51/53 Toxic to aquatic organisms, may cause long-term adverse.
R65 Harmful: May cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

N-Butyl acetate

R10 Flammable.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

N-Butanol

R10 Flammable.
R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R37 Irritating to respiratory system.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious eye damage.
R67 Vapours may cause drowsiness and dizziness

Xylene

R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.

Full text of Symbol phrases appearing in section 2 :

Xi - Irritant
Xn - Harmful
T - Toxic
N - Dangerous for the environment

The information of this MSDS 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 purposes 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 MSDS 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/Amended On

5-Jun-15

Paint Remover 300

TECHNICAL DATA SHEET

Tiger Brand Paint Remover 300

SOLVENT BASED PAINT REMOVER**DESCRIPTION:**

Tiger Brand Paint Remover 300 is a single component heavy-duty paint removing agent.

TYPICAL USES:

Recommended for marine and industrial environment. Provide excellent paint removing function for most types of coating.

SUBSTRATES:

Recommended for application on steel and other metals surfaces.

ADVANTAGES:

- Provide strong and easy to apply properties.
- Product is ready for use.

TECHNICAL DATA @ 25°C:

Colour:	Translucent liquid
Finish:	NA
Volume Solids:	NA
Specific Gravity	0.95 (+/-) 0.05

DIRECTIONS FOR USE:**Surface Preparation**

The preferred surface should be clean and dry, free from unnecessary grease and oil.

Application

Paint Remover 300 can be applied by roller or brush.

Provide proper ventilation in confined areas to permit or aid curing.

Spreading Information

Recommended Wet film thickness: 70 to 100 microns

Dry film thickness: NA

Spreading rate: NA

Paint Remover 300**Thinning**

No thinning is required.

Cleaning

All equipment and removed materials should be properly disposed off.

PACKAGING AND STORAGE:

The product comes in both 0.5/1.0/3.5/16.0 litres packing. Must be stored in cool well-ventilated area away from direct sunlight.

HEALTH AND SAFETY:

Do not inhale spray mist. Remove all contaminated clothing and wash skin with suitable proprietary cleaners or soap and water. In case of contact with eyes, flush immediately with water for at least 15 minutes. If persistent discomfort or irritation occurs after application please seek medical advice.

Disclaimer: The technical information provided is believed to be reliable based on the manufacturer's tests and experience. However as the product is often applied in varying field conditions beyond the manufacturer's control, our company cannot guarantee anything but the product itself. And the manufacturer reserves the right to amend the information without any notice.