

Two Nine Six O Trading Pte Ltd

18 FAN YOONG ROAD SINGAPORE 629795 TEL: 6267 1300 FAX: 6264 2960
CO. REG. & GST REG. NO: 200606876H CR NO: 76876060000Z

SAFETY DATA SHEET

SDS Number: SDS-167version

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name : TAFT SOLUTION S

Intended Use : Solvent Based Primer

Manufacturer : Ixon International Pte Ltd

Telephone : (65) 6 62671300

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS No</u>	<u>%</u>	<u>Hazard Classification</u>
Solvent Naphtha	-	10..5-23.1	Xn, R65
1,2,4-Trimethylbenzene	95-63-6	7.9-17.5	Xn,Xi, R20, R36/37/38
Mesitylene	108-67-8	2.3-5.1	Xi, R37
Propylene and Isopropylbenzen (Cumene)	98-82-8	1.6-3.6	Xn.Xi,R37, R65

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS

- Harmful if swallowed
- Harmful by inhalation and in contact with skin
- Irritating to skin. Repeated exposure may cause skin dryness or cracking.
- Vapours may cause drowsiness and dizziness.

PHYSICAL AND CHEMICAL HAZARDS/FIRE AND EXPLOSION HAZARDS

- High hazard. Liquids can release vapours that can readily form flammable mixtures at temperatures at or above the flash point.
- Static discharge. Product can accumulate static charges, which can cause an incendiary electrical discharge.

4. FIRST-AID MEASURES

INHALATION

- Remove to fresh air immediately. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Keep at rest. Obtain medical attention immediately.

SKIN CONTACT

- In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes.
- If irritation persists, get medical attention.

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EYE CONTACT

- Immediately flush eyes with large amounts of water for at least 15 minutes or until irritation subsides.
- Obtain medical attention immediately.

INGESTION

- DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Carbon dioxide, foam or dry chemical type recommended.

FIRE FIGHTING PROCEDURES

- Use water spray to cool fire-exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel.
- If possible, isolate from heat, electrical equipments, sparks and open flames.
- Use foam or dry chemical type extinguishers to extinguish fire.

SPECIAL FIRE PRECAUTIONS

- Wear full protective clothing and NIOSH-approved self-contained breathing apparatus.
- Do not allow run-off from fire fighting to enter drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

PERSON RELATED PRECAUTIONARY MEASURES

- Avoid substance contact with eyes. Do not inhale vapours.
- Ensure supply of fresh air in enclosed rooms.
- Use appropriate protective equipment, e.g respirators, eye protection, gloves and safety shoes.

ENVIRONMENTAL PROTECTION MEASURES

- Eliminate sources of ignition
- Keep public away
- Contain spilled liquid with sand or other non-combustible absorbent materials
- Wash area and prevent runoff into drains and sewerage system

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- Advise authorities if substances has entered a watercourse or swer or has contaminated soil or vegetation.

PROCEDURE FOR CLEANING

- Clean up all spills immediately
- Absorb spill with absorbent and inert material, then place in container
- Disposal in accordance to local regulations.

7. HANDLING AND STORAGE

HANDLING

- Keep out of reach of children
- Handle containers with care. Open slowly in order to control possible pressure release.
- Do not pressurize containers
- Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes.
- For personal protection, see section 8.
- Use only in areas from which all naked lights and other sources of ignition have been excluded.

STORAGE

- Keep containers tightly closed.
- Containers that are opened should be properly resealed and kept upright to prevent leakage.
- Store in cool, dry and well-ventilated place at temperature between 20°C to 40°C away from heat and sources of ignition.

8. EXPOOSURE CONTROLS/PRSONAL PROTECTION

ENGINEERING CONTROL MEASURES

- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limit.
- Ensure eyewash stations and safety showers are close to the workstation location.

OCCUPATIONAL EXPOSURE LIMIT

<u>Ingredient</u>	<u>TLV-TWA(ACGIH)</u>		<u>PEL(OSHA)</u>	
	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>
solvent Naphtha	-	-	-	-
1,2,4-Trimethybenzen	25	123	25	123
Meitylene	-	-	-	-
Propylene and Isopropylbenzen -	-	-	-	-

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(Cumene)

PERSONAL PROTECTION MEASURES

Respiratory Protection: Use of NIOSH-approved respirators with organic vapour cartridges is recommended.

Hand Protection: Use of solvent resistance type or chemical resistant type of protective gloves is recommended.

Eye Protection: Use of safety glasses or goggles with side shields is recommended.

Skin/Body Protection: Wear chemical resistant clothes and safety shoes when handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Odour : Aromatic Hydrocarbon odour

Specific Gravity : 0.94-1.21

pH : Not Available

Flash Point : 41 °C

Boiling Point : Between 154°C to 181°C

Melting Point : <-50°C

Auto-ignition temperature: >400° C

Explosive limits(in air) : between 0.8-7.0 vol %

Vapour density (101.3Pa/air=1): >1.00(Vapour is heavier than air)

Solubility in water: Not Miscible

10. STABILITY AND REACTIVITY

STABILITY

- The product is stable under recommended storage and handling conditions.(see section 7)

CONDITIONS TO AVOID

- DO NOT expose to extreme heat, ignition sources or sparks.
- To prevent the creation of flammable concentrations of vapor in air, good natural ventilation, and if necessary, local exhaust ventilation, should be provided. The accumulation of dry over spray, contaminated rags, etc may result in spontaneous combustion. Good housekeeping standard plus the regular and safe removal of waste materials will minimize the risk.

HAZARDOUS DECOMPOSITION PRODUCTS

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- When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke and oxides of nitrogen.

MATERIALS TO AVOID (INCOMPATIBILITY)

- Keep away from oxidizing agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself.

ACUTE EFFECT

- Inhalation: Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anaesthetic and may have other central nervous system effects.
- Skin contact: Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.
- Eye contact: May be an eye irritant.
- Ingestion: Harmful if swallowed.

CHRONIC EFFECT

No information available on the product.

TOXICITY DATA

Propylene and	LD ₅₀ (Oral, rat): >1400mg/kg	LC ₅₀ (Inhalation, rat): 8000ppm/4hr
Isopropylbenzene	LD ₅₀ (Dermal, rat):>2000mg/kg	
Mesitylen	-	-
1,2,4-		
Trimethylbenzene	-	-
Solvent Naphtha	-	-

12. ECOLOGICAL INFORMATION

- Ecotoxicity : May cause long term adverse effect in the aquatic environment.
- Mobility : Do not allow to enter drains or watercourses

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Persistence/degradability: No evidence of biodegradability

Bio-accumulative potential: This product is not expected to bio-accumulate through food chains in the environment.

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses.

Wastes and empty container should be treated and disposed of in accordance with national and local regulation.

Empty containers and packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

For small quantities: Do not pour leftover primer down the drain. Unwanted primer should be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collection.

Empty primer containers should be left open in a well ventilated area to dry out before recycle, reuse or dispose.

To ensure compliance, consult national and local authorities.

14. TRANSPORT INFORMATION

Transport to be in accordance with ADR.RID for road/rail, IMDG for sea and IATA for Air.

LAND TRANSPORT

Classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

UN No : 1263

UN CLASS : CLASS 3

UN PACKAGING GROUP :III

SEA TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN No : 1263

UN CLASS : CLASS 3

UN PACKAGING GROUP :III

AIR TRANSPORT

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Classified as Dangerous Goods by the criteria of the International AIR TRANSPORT ASSOCIATION (IATA) Dangerous Goods Regulations for transport of Sea.

UN No : 1263
UN CLASS : CLASS 3
UN PACKAGING GROUP :III

15. REGULATORY INFORMATION

Classification according to EC Directives (91/155/EEC), Singapore Standard CP98:2003

HAZARD CLASSIFICATION:

Xn: Harmful

Xi: Irritant

RISK PHRASES:

R20: Harmful by inhalation

R20/21: Harmful by inhalation and in contact with skin

R36/37/38 : Irritating to eyes, respiratory system and skin

R37 : Irritating to respiratory system

R38 : Irritating to skin

R65 : Harmful may cause lung damage if swallowed

16. OTHERS INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. Since the conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge, for this and other reasons, we make no guarantee of results and assume no liability for damages incurred by the use of this product. Please be reminded that all chemicals may present unknown health hazards and should be used with caution.

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