



Material Safety Data Sheet

WS-3040

Code : 07-001-0

Prepared By : ATT Laboratory

Validation Date : 01-Oct-2008

1. Chemical Product and Company Identification

Trade Name	:	WS-3040 White Spirit 3040
Chemical Name	:	Naphtha (petroleum) hydrosulfurized heavy
Chemical Formula	:	-
Material Uses	:	Raw material for used in extraction, as cleaning agent and as degreasing agent. Solvent for resin, paint, thinner.
Supplier	:	Asia Pacific Petrochemical Co., Ltd. 18 SCB Park Plaza Tower 2 (West), 21 st Floor, Zone C, Ratchadapisek Road, Chatuchak, Bangkok 10900 Telephone: 02 9375615-20 Facsimile: 02 9375434 www.apcbkk.com
Emergency Contact	:	081 9212721 & 081 6203971

2. Composition/Information on Ingredients

Synonyms Name	:	WS-200 Solvent 3040)
Composition	:	Hydrocarbon mixed of aromatic, paraffinic and naphthenic.
UN No.	:	1300
CAS No.	:	64742-82-1

3. Hazards Identification

Safety Hazards	:	Flammable.
Human Health Hazards	:	Harmful: may cause lung damage if swallowed. Irritating to skin. Vapours may cause drowsiness and dizziness.
Environmental Hazards	:	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

- Inhalation** : Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.
- Skin Contact** : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available.
- Eye Contact** : Immediately flush eyes with large amounts of water for at least 10 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
- Ingestion** : Do not induce vomiting; Do not eat milk and castor oil, transport to nearest medical facility for additional treatment.

5. Fire and Explosion Hazard Data

- Flash Point** : 40 °C (Abel)
- Flammable Limits** : 1.1 - 6 %V
- Auto Ignition Temperature** : 282 °C
- Chemical Reactivity** : Stable under normal conditions
- Materials to Avoid** : Strong oxidizing agents
- Extinguishing Media** : Water spray or fog, Dry chemical powder, Alcohol-resistant foam and Carbon dioxide.
- Fire Fighting Additional Advice** : Keep adjacent containers cool by spraying with water.
- Protective Equipment** : Wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Protective Measures** :
 - Observe all relevant local and international regulations.
 - Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
 - Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Clean-Up Methods**
- ♦ **Small spillage** : Transfer by mechanical means to a labeled, sealable container

- (< 200 LT) for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- ♦ large spillage (> 200 LT) : Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- Other Information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

7. Handling And Storage

- Handling : Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated area. Do not empty into drains.
- Storage : Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives. Storage Temperature: Ambient.
- Product Transfer : Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Recommended Materials : For containers, or container linings use mild steel, stainless steel.
- Additional Advice : Containers even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8. Exposure Controls and Personal Protection

- Exposure Standard : Occupational Exposure Limits
- ♦ TLV-TWA = 350 mg/m³(8 hours)
- Engineering Controls Workplace : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

Respiratory Protection	:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hand Protection	:	Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.
Eye Protection	:	Chemical splash goggles (chemical monogoggles).
Other Protection	:	Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

9. Physical and Chemical Properties

Appearance	:	Clear liquid.
Odour	:	Paraffinic sweet.
Boiling Point (°C)	:	152 - 200 °C
Melting Point (°C)	:	No data available.
Vapour Pressure (kPa)	:	400 Pa @ 20 °C 1500 Pa @ 50 °C
Specific Gravity	:	0.766 – 0.786 @ 20 °C (ASTM D4052)
Density (g/cm ³)	:	0.765 - 0.785 @ 20 °C (ASTM D4052)
Vapour Density	:	>1 @ 20 °C (air = 1)
Solubility in Water	:	Insoluble.
Evaporating Rate	:	0.16 (n-Butyl Acetate = 1)
pH Value	:	No data available.

10. Stability and Reactivity

Stability	:	Stable under normal conditions.
Conditions to Avoid	:	Heat, flame, spark and other ignition sources.
Materials to Avoid	:	Strong oxidizing agents.
Hazardous Decomposition Products	:	Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides.

Hazardous Polymerisation : No.

11. Toxicological Information

Acute Toxicity

- ◆ LD₅₀ Acute oral toxicity : >2,000 mg/kg
- ◆ LD₅₀ Acute dermal toxicity : >2,000 mg/kg
- ◆ LC₅₀ Acute Inhalation Toxicity : >5 mg/l

Skin Irritation : Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Eye Irritation : Irritating to eyes.

Respiratory Irritation : Inhalation of vapours or mists may cause irritation to the respiratory system.

Carcinogenicity : No data available.

12. Ecological Information

Acute Toxicity

- ◆ Fish : Low toxicity 10 < LC/EC/IC₅₀ ≤ 100 mg/l
- ◆ Aquatic invertebrates : Low toxicity 10 < LC/EC/IC₅₀ ≤ 100 mg/l
- ◆ Algae : Low toxicity 1 < LC/EC/IC₅₀ ≤ 10 mg/l
- ◆ Microorganisms : Low toxicity 10 < LC/EC/IC₅₀ ≤ 100 mg/l

Mobility : Floats on water. If product enters soil, it will highly mobile and may contaminate groundwater.

Persistence / Degradability : Readily biodegradable.

Bio-accumulation : Has the potential to bioaccumulate.

13. Disposal Considerations

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classifications and disposal methods in compliance with applicable regulations.

Container Disposal : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Local Legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14. Transport Information

Road/Rail Transport ADR/RID

- ◆ UN. Number : 1300
- ◆ Class/Item : 3/31 (C)
- ◆ Hazard Symbol : Flammable Liquid
- ◆ Proper Shipping Name : White Spirit
- ◆ Packing Group : III

Maritime Transport IMO

- ◆ UN. Number : 1300
- ◆ Class : 3.3
- ◆ Packing Group : III
- ◆ Hazard Symbol : Flammable Liquid
- ◆ Proper Shipping Name : White Spirit
- ◆ Marine Pollutant : Yes , Marine Pollutant Marks required

Air Transport IATA/ICAO

- ◆ UN. Number : 1300
- ◆ Class : 3
- ◆ Packing Group : III
- ◆ Hazard Symbol : Flammable Liquid
- ◆ Proper Shipping Name : White Spirit

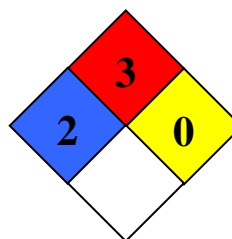
15. Regulatory Information

- EC Label Name : White Spirit
- EC Classification : Flammable, Harmful, Dangerous for the environment.
- EC Symbol : F
Xn
N
- EC Risk Phrases : R 10 Flammable.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment.
R 65 Harmful: may cause lung damage if swallowed.
R 66 Repeated exposure may cause skin dryness or

	cracking.
	R 67 Vapours may cause drowsiness and dizziness.
EC Safety Phrases	: S 23 Do not breathe vapour. S 24 Avoid contact with skin. S 61 Avoid release to the environment. Refer to special instructions/Safety data sheet. S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
EINECS (EC)	: 265-185-4
EC Annex I Number	: 649-330-00-2
MITI (Japan)	: 9-1699
Other information	: The benzene content of this product is less than 0.1%. Classification and labeling as carcinogen (R45) is not required.

16. Other Information

National Fire Protection Association (USA) :



- Health
- Fire Hazard
- Reactivity
- Specific Hazard

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Prepared By : Quality Control Department.
Asia Pacific Petrochemical Co., Ltd.

Disclaimer :

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

Revision 3 : October, 2008