

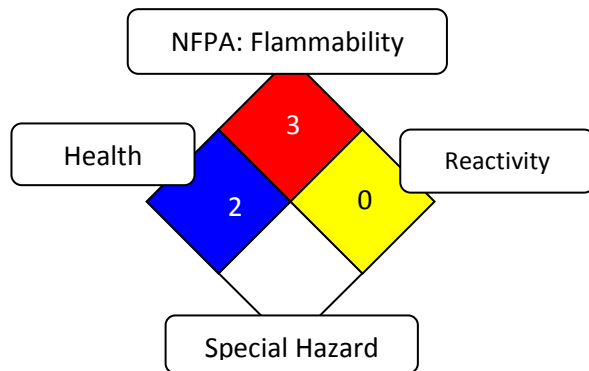


JOPETROL

Jordan Petroleum Refinery Company LTD

Material Safety Data Sheet: White Spirit

JPRC PR-04



HMIS II I:

Flammability	3
Health	2
Reactivity	0

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION :

Product name : White Spirit
MSDS Number : JPRC PR-04.
Product Use Description : For thinning paint, degreasing, brush maintenance, etc.
Company : Jordan Petroleum Refinery
Amman – Jordan.
TEL: + 962 6 4630151 or 4657600
FAX: + 962 6 4657934 or 4657939
P.O.BOX: 3396 Amman 11181 – Jordan
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SECTION 2. COMPOSITION / INFORMATION ABOUT INGREDIENTS:

CONTAINS hydrocarbons, n-alkanes, isoalkanes, cyclics, aromatics (max 17 vol.%)

SECTION 3. HAZARDS IDENTIFICATION:

Physical and Chemical Hazards	:	Flammable liquid and vapour.
Hazard Summary	:	Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Signal Word	:	DANGER

SECTION 4. FIRST AID MEASURES :

GENERAL INFORMATION	:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. Keep away from heat, sparks and open flame. INHALATION Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. INGESTION DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air. SKIN CONTACT Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing. Launder clothing before reuse. EYE CONTACT Promptly rinse eyes with plenty of clean water while lifting the eyelids open. Continue to rinse for at least 15 minutes. Continue until the eyes are free of all traces of contamination. Get immediate medical attention.
First Aid Facilities	:	Eye wash fountains and safety showers should be available for emergency use.
Advise to Doctor	:	Treat according to symptoms.
Potential Health Effects	:	Keep away from open flames and hot surfaces No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Dispose of contents/container in accordance with local regulations. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Supplemental Label Information (EU) Repeated exposure may cause skin dryness or cracking Prolonged exposure to vapors may cause somnolence and narcosis.

SECTION 5. FIRE-FIGHTING MEASURES :

Form	: liquid
Flash Point	: Min 38 °C
Lower explosive limit	: 0.7%
Upper explosive limit	: 7%
Engineering Controls	: Provide sufficient ventilation to keep air borne levels below the exposure limit. Where vapors or mists are generated, particularly in enclosed areas and natural ventilation is inadequate, a flameproof exhaust ventilation system is required.
	: EXTINGUISHING MEDIA Extinguish with water spray, foam, carbon dioxide, dry powder, sand, dolomite or other inert material.
	: SPECIAL FIRE FIGHTING PROCEDURES Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out.
	: UNUSUAL FIRE & EXPLOSION HAZARDS Vapours may form explosive mixture with air at room temperature. Vapours are heavier than air and may spread near ground to sources of ignition.
	: SPECIFIC HAZARDS Decomposition / combustion products include: Carbon monoxide (CO). Carbon dioxide (CO ₂).
	: PROTECTIVE MEASURES IN FIRE Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

SECTION 6. ACCIDENTAL RELEASE MEASURES

In case of spill	: Shut off flow if possible. Eliminate all sources of ignition, including internal combustion engines. De-energize electrical equipment and systems. Isolate area and keep people away. Stay upwind and warm of possible downwind explosion hazard. Use supplied-air respirator and protective clothing as discussed in this MSDS. PERSONAL PRECAUTIONS Wear protective clothing (see Section 4). ENVIRONMENTAL PRECAUTIONS Do not allow spilt material to enter drains or water courses. Cover all drains and sewers. Avoid spreading spilled material. Contain spillages with sand, earth or suitable inert absorbent material. Prevent further spillage if safe to do so SPILL CLEAN UP METHODS Absorb in vermiculite, sand, diatomaceous earth or other inert absorbent material. Place into clearly labelled container for recovery or disposal. Rinse site with copious amounts of water, which should not be allowed into drains, sewers or water courses.
Waste Disposal	: It is the responsibility of the user of products to determine, at the time of disposal, whether the product meets criteria for hazardous waste. Product uses, transformations, mixture and processes, may render the resulting material hazardous.
Remarks	: Do not allow to enter drains or sewers. Can cause explosion.

SECTION 7. HANDLING AND STORAGE

- Handling : Avoid spilling, skin and eye contact. Use only with adequate ventilation. Do not breathe vapour or mist. Keep away from heat, sparks or flame. Containers and equipment must be bonded to avoid static discharge. Use only electrical equipment suitable for explosive atmospheres.
- Storage : Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep away from food, drink and animal feeding stuffs. Store away from oxidising materials, acids and bases or damp conditions.
STORAGE CLASS : flammable liquid storage.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Skin protection : Protective clothing should be worn. Petroleum resistant gloves and boots recommended. Insulated gloves required if contact with liquid-cooled product or equipment is expected.
- Respiratory protection : Use atmosphere supplying respirator in confined spaces
- Eye protection : Avoid eye contact. The wearing of chemical safety goggles or face shield is recommended.
- Engineering measures : Local or general exhaust required in an enclosed area or when there is inadequate ventilation.
- HYGIENE MEASURES : DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Component	Type	Value
hydrocarbons, C9-C12, n-alkanes, isoalkanes cyclics, aromatics (2-25%)	TWA 8-hr	350 mg/m ³

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.

- Physical state : Liquid
- Appearance & odor : Clear Colourless. Hydrocarbon ODOUR
- Density @ 15 °C, g/ml : 0.775-0.8
- Flash Point °C : Min 38
- Lower explosive limit : 0.7
- Upper explosive limit : 7% (%v/v)
- Aniline point : Min 55 °C
- Volatiles organic : 100%
- Boling point °C @ 760mmHg : 150 - 210
- Aromatics content (Vol %) : Max 17
- Bromine number : Max 5
- Total acid number,mg KOH/g : 0.0030
- Doctor test : Negative

SECTION 10. STABILITY AND REACTIVITY

STABILITY CONDITIONS TO AVOID	:	Stable under normal conditions of storage and use. Avoid contact with acids and oxidising substances. Avoid heat, flames and other sources of ignition.
HAZARDOUS DECOMPOSITION PRODUCTS	:	Fires or excessive heat may give off toxic fumes and gases. Decomposition products may include carbon monoxide (CO) and carbon dioxide (CO ₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Skin irritation	:	Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation
Eye irritation	:	May cause severe irritation to eyes.
INHALATION	:	Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system

Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication.

INGESTION

Harmful if swallowed accidentally. Can cause severe irritation of mucous membranes and the respiratory tract. Liquid irritates mucous membranes and may cause abdominal pain if swallowed. Absorption can cause narcosis, intoxication and pulmonary oedema

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY	:	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. This material should not be allowed into drains, sewers or other water courses.
MOBILITY	:	Moderately volatile liquid which may spread given a large surface area of water. The product has limited mobility in soil but will slowly evaporate from the surface. Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
DEGRADABILITY	:	Readily biodegradable

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	:	Dispose of container and unused contents in accordance with local requirements.
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GENERAL INFORMATION:

Empty containers may contain residual product and flammable vapours. Keep away from sparks, heat and sources of ignition. Labels should not be removed. Product is hazardous waste. Do not allow into drains, sewers or water courses.

DISPOSAL METHODS:

Dispose of waste and residues in accordance with local authority requirements. Do NOT Incinerate the container even when empty.

WASTE CLASS : Waste Paint or Varnish Remover.

SECTION 14. TRANSPORT INFORMATION.

Transport	:	Classified as dangerous goods (class 3) according to the Australian code for the transport of dangerous goods by road and rail.
Proper Shipping Name	:	(White Spirit)
UN NO.ROAD	:	1300
ADR CLASS	:	Class 3 Flammable liquids.
ADR LABEL NO.	:	3
HAZCHEM CODE	:	3Y

SECTION 15. REGULATORY INFORMATION

According environment Jordanian law number 6 (2017) and waste disposal regulation applied within.

SECTION 16. OTHER INFORMATION

Additional Information	:	This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organization responsible for advising on safety matters.
Disclaimer :	:	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall JPRC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if JPRC has been advised of the possibility of such damage.

