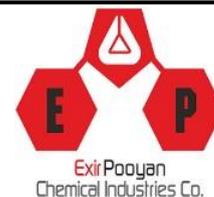


MATERIAL SAFETY DATA SHEET (MSDS)



WHITE SPIRIT

1. PRODUCT IDENTIFICATION:

RECOMMENDED USE: Solvent, dry cleaning fluid

CAS NO.: 64741-92-0

COMPANY IDENTIFICATION:

Central Office: No 202, Shahid Beheshti Ave., Tehran-Iran

Post Code: 1577836331

Tel: +982188524300 (10 Lines)

Fax: +982188170565

Factory: Arghavan 3 Ave., No.2 Industrial Zone, Arak-Iran

Post Code: 3833151743

Tel: +988633573306 (10 Lines)

Fax: +988633573236

Web: www.Exirpooyan.com

Email: info@exirpooyan.com

2. HAZARDS IDENTIFICATION:

Physical:	Flammable liquids	Category 3
Health:	Aspiration Hazard	Category 1
	Skin corrosion/irritation	Category 2
	Chronic Aquatic Toxicity	Category 3

LABEL ELEMENTS

Hazard symbols:



Signal word: Danger!

Hazard statements:

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H412	Harmful to aquatic life with long lasting effects

Precautionary statements:**General:**

P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use

Prevention:

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilation/lighting equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash thoroughly after handling
P273	Avoid release to the environment
P280	Wear protective gloves/eye protection/face protection

Response:

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P303 + P361 + P353	IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower
P331	Do NOT induce vomiting
P332 + P313	If skin irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P370 + P378	In case of fire: Use foam/water spray/fog for extinction
P391	Collect spillage

Storage:

P403 + P235	Store in a well-ventilated place. Keep cool
P405	Store locked up

Disposal:

P501	Dispose of contents/container in accordance with local regulations
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3. COMPOSITION/INFORMATION ON INGREDIENTS:

Components	CAS-No.	Percent
WHITE SPIRIT	64741-92-0	95 - 100 %

4. FIRST AID MEASURES:

Eye contact	If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists seek medical attention.
Skin contact	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.
Inhalation	Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
If swallowed	If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
First Aid Facilities	First aid kits, safety showers, eye wash stations

5. FIRE FIGHTING MEASURES:

FLAMMABLE PROPERTIES:

Flammability:	Product is a flammable liquid.
Suitable extinguishing media:	Foam, water spray or fog, dry chemical powder or carbon dioxide. Do not use water in a jet.
Unsuitable extinguishing media:	Do NOT use water jet.
Special protective precautions and equipment for fire fighters:	Wear full protective clothing and self-contained breathing apparatus.
Hazards from combustion products:	Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. Vapor is heavier than air, can spread along ground and distant ignition is possible.

6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedure:	Personal precautions, protective equipment and emergency procedures Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.
Environmental precautions:	Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.
Methods and materials for containment and cleaning up:	For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. Contact the proper local authorities.

7. HANDLING AND STORAGE:

Handling & Storage:	Flammable product. Avoid breathing vapors. Handle and open containers with care in a wellventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Flameproof equipment necessary in area where chemical is being used. Vapors may accumulate in low or confined areas. Bulk storage tanks should be banded. Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.
Incompatibilities:	Store away from incompatible materials such as oxidising agents, heat and sources of ignition. Store away from direct sunlight and moisture

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Exposure Standards:

Mineral Spirits 150-200 HSPA: 350mg/m³ TWA (8hr)

Engineering controls:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use a flame proof exhaust ventilation system

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection:	RESPIRATOR: Wear an approved respirator with suitable filter for organic gases and vapors if engineering controls are inadequate (AS1715/1716).
Thermal Protection:	None should be needed under normal circumstances.
Smoking & Other Dusts:	Smoking must be prohibited in all areas where this product is used - see safety information on flammability.
Eye protection:	Chemical goggles to prevent splashing in the eyes (AS1336/1337).
Skin and body protection:	Butyl rubber or PVA gloves break through time 4hr (AS2161).
Clothing:	Flame-retardant coveralls and anti-static footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Clear Colorless liquid
Color	Colorless liquid
Form	Liquid
Odor	Aromatic odor
Odor Threshold	No data available
Flash point	>35 °C
Flammability	Upper explosion limit: 6.0% (V) Lower explosion limit: 1.0% (V)
Boiling point/boiling range	IBP 140-160 °C FBP 220 °C MAX
Freezing point	<-27 °C
Auto-ignition temperature	280°C
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	< 802.5 mmHg (20 °C / 68 °F)
Relative vapor density	4.5-5
Density	0.775-0.795 g/cm ³ @ 15 °C
Water solubility	Insoluble
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available
Sulfur	Max 1000 ppm

10. STABILITY AND REACTIVITY

Chemical Stability:

Product is stable under recommended conditions of use, storage and temperature. Flammable liquid.

Hazardous Decomposition Products:

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

Incompatible materials:

Incompatible with oxidizing agents, heat and sources of ignition.

Conditions to Avoid:

Avoid excessive heat, sparks, open flames, direct sunlight, moisture, freezing, static charges and high temperatures

11. TOXICOLOGICAL INFORMATION:

Expected to be of low toxicity -LD50 Oral (rat) > 2000 mg/kg

LC50 Inhalation greater than near-saturated vapor concentration (rat,4h)

LD50 Dermal (rabbit) > 2000 mg/kg

repeated exposure:

Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.

Aspiration hazard:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

12. ECOLOGICAL INFORMATION:**Acute toxicity:**

Fish –Expected to be harmful: $10 < LC/EC/IC50 \leq 100\text{mg/l}$

Aquatic invertebrate –Expected to be harmful: $10 < LC/EC/IC50 \leq 100\text{mg/l}$

Algae –Expected to be harmful: $10 < LC/EC/IC50 \leq 100\text{mg/l}$

Microorganisms –Expected to be harmful: $10 < LC/EC/IC50 \leq 100\text{mg/l}$

Chronic toxicity:

Fish –Data not available

Aquatic invertebrate –Data not available

Algae –Data not available

Microorganisms –Data not available

Persistence and degradability:

Readily biodegradable. Oxidises by photo-chemical reactions in air.

Bio accumulative potential:

Has the potential to bio accumulate.

Mobility in soil:

Floats on water.

Other adverse effects:

Data not available.

13. DISPOSAL CONSIDERATIONS:

Disposal methods: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility. Contact a specialist disposal company or the local waste regulator for advice. This should be done in accordance with 'The Hazardous Waste Act'.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	TURPENTINE SUBSTITUTE
UN number:	1300
DG Class:	3
Subsidiary Risk 1:	-
Packaging Group:	III
HAZCHEM code:	3Y

15. OTERE INFORMATION:

NFPA Ratings: Health: 1 Flammability: 2 Reactivity: 0

