MATERIAL SAFETY DATA SHEET



WHITE SPIRIT

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND COMPANY/ UNDERTAKING

Material Name	: Low Aromatic White Spirit
Uses	: Industrial Solvent
Product Code	: LAWS

RAR Resin & Chemical Industries JLT 11th Floor, Jumeirah Lake Towers, P.O. Box: 47381, Dubai UAE Tel: +971 4 4356516 / +971 4 4356517 Fax: +971 4 4356518 Email: info@rarresin.com Website: www.rarresin.com

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Synonyms	: LAWS
CAS No.	: 64742- 82-1
INDEX No.	: 649-330-00-2
EINECS No.	: 265-185-4

Hazardous Components

Supplier/ Exporter

Chemical Name	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
1,2,4-Trimethyl benzene	95-63-6	202-436-9	Xn, N	R10; R20;	
				R36/37/38;	
				R51/53	

3. HAZARDS SUMMARIZING

Health hazards	: Vapours may cause drowsiness and dizziness. May cause moderate irritation to skin. Reported exposure may cause skin dryness or cracking. Harmful: may cause lung damage from prolonged exposure; see Chapter 11 for details. target organ (s): Auditory system. Central nervous system (CNS)
Signs and Symptoms	Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/ cracked appearance. Other signs and symtoms of central nervous system(CNS) depression may include headache, nausea, and lack of cordination. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, choking, wheezing, difficulty in breathing, chest congestion and/ or fever.

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Safety hazards Environmental hazards	 Auditory system effects may include temporary hearing loss and/ or ringing in the ears. Flammable. In use, may form flammable/ explosive vapour air mixture. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
4. FIRST AID MEASURES	
General Information	: In general no treatment is necessary, however, obtain medical advice.
Inhalation	: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for medical treatment.
Skin Contact	: Remove contaminated clothing. Flush expose area with water and follow by washing with soap if available.
Eye contact	: Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist, transport to the nearest medical facility for additional treatment
Ingestion	: If swallowed, do not include vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Advice to Physician	: causes central nervous systemdepression. Dermatitis may result from prolonged or repeated exposure. potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

5. FIRST AID MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards Extinguishing Media	 : carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spread along the ground and distant ignition is possible. : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand, or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.
Unsuitable Extinguishing media	: Do not use water in a jet.
Protective equipment for firefighters Additional Advice	: wear full protective clothing and self- contained breathing apparatus : Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Protective	Measures
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: Avoid contact with spilled or released material. Immediately remove all contamintaed clothing. For guidance on selection of personal protective equipement see chapter 8 of this Material

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	: Safety data sheet. Shut off leaks, if possible without personal risk. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using of sprays. Take precautio- nary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
Clean- up Method	: For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absor- bent material and dispose of safely. For large spills(>1 drum), transfer by mechanical means such as vacuum truck to salvage tank for recovery for safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to soak up with an appropriate absorbent material and dispose of safely.
Additional Advise	: See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapor may form an explosive mixture with air.
7. HANDLING AND STORAGE	
General Precautions	: Avoid breathing of or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipemnt see Chapter 8 of this Material Safety Data Sheet. Use the information in this data as input to risk assess- ment of local circumstances to help determine appropriate controls or safe handling, strorage, and disposal of this material.
Handling	: Avoid contact with skin, eyes, and clothing. Extinguishing any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. The vapour in is heavier than the air, apreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipement. restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<= 1m/ sec until fill pipe submerged twiceto its diameter , then <= 7 m/ sec). Avoid splash filling. DO NOT use compressed air for filling, discharging, or handling operations. Handle and open container with care in well- ventilated area. Ventilate workplace in such a way that the Occupational Exposure Limit (OEL) is not exceeded. 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 and form other flammable products which are not harmful or toxic to man or to the environment. Storage Temperature: Ambient

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Product Transfer	: Ensure electrical continuity bi bonding and grounding (earthing) all equipement. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<= 1 m/ sec until fill pipe submerged twice to its diameter, then <= 7m/ sec) avoid splash filling. DO NOT use compre- ssed air for filling, discharging, or handling operations. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. If positive displace- ment pumps are used, these must be fitted with a non-integral pressure relief valve.
Recomended Materials	: For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.
Unsuitable Materials Container Advise	: Avoid prolonged contact with natural, butyl, or nitrile rubbers. : 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 CONTROL/ PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Туре	ppm	Mg/m3	Notation
RCP Mineral	EU HSPA	TWA (8h)	350 mg/m3		
Spirits 150-200					
Additional Inf	ormation		respiratory protective respirators are suitabl mask and filter. Select vapours [boiling pint > Where air- filtering res priate combination of for organic gases and	ate to protect wo equipemnt suitab meeting relevant equipment suppli e, slects an appro- a filter suitable for 65 deg C (149 d spirators are suita mask and filter. S vapours [boiling re air-filtering resp rations are high,	rker health, select legislation. Check with ers. Where air- filtering opriate combination of or organic gases and leg F) meeting EN141 able, select an appro- select a filter suitable point> 65 °C (149 °F)] pirators are unsuitable risk of oxygen defi-
Hand Protecti	on		: Where hand contact gloves approved to th US F739) made from suitable chemical prot rubber gloves incident neoprene rubber glove	e relevant standa the following mate ection: Long term al contact/ splash	rds(e.g. Europe: EN374, erials may provide protection: Nitrile

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	Skin protection not ordinarily required beyond standards issue work clothes.
Monitoring Methods	: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may be appropriate Examples of sources of recommended air monito- ring methods are given below or contact supplier. Further na- tional methods may be available.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	: Colourless liquid
Odour	: Paraffinic
рН	: Not applicable
Boiling point	: 115- 210 °C/ 311- 410 °C
Melting/ Freezing Point	: Not applicable
Flash Point	: Typical 41 - 42 °C/ 106 - 108 °F (Abel)
Explosion / Flammability	: 0.7 - 6.5 % (V)
Limits in air	
Auto-Ignition temperature	: 296 °C / 565 °F (ASTM E - 659) : 245 °C / 473 °F (DIN 51794)
Specific gravity	: 0.8 at 15 °C / 59 °F
Density	: Typical 783 kg/ m3 at 15 °C / 59 °F (ASTM D - 4052)
Water Solubility	: Insoluble
Solubility in other solvents	: Aromatic Miscible
	: Aliphatics Miscible
Kinematic viscocity	: Typical 1.08 mm2/ s at 25 °C / 77 °F
Volatile organic carbon	: 85 % (EC/1999/ 13)
Content	
Physical data Comments	: Aromatic 17- 20 %
Molecular weight	: 140 g/ mol
10. STABILITY AND REACTIVITY	
Chability	· Otoble under normal conditions of use
Stability Conditions to Avoid	: Stable under normal conditions of use.
Conditions to Avoid	: Avoid heat, sparks, open flames, and other ignition sources.
Hazardous	Strong oxidizing agents. : Thermal decomposition is highly dependent on conditions.
	A complex mixture of airborne liquids, solids, liquids, and other
	organic compounds will be evolved when this material under-
	goes combustion or thermal or oxidative degradation.
11. TOXICOLOGICAL INFORMATION	good compaction of thermal of character dogradation
Basis for Assessment	: Information given is based on product testing, and / or similar
	products, and / or components.
Acute Oral Toxicity	: Low toxicity: LD 50 >2000 mg/ kg, Rat
,	: Aspiration into the lungs when swallowed or vomited may
	cause chemical pneumonitis which can be fatal.

: Monogoggles (EN166)

: Chemical splash goggles (chemical monogoggles)

: Chemical resistant gloves/ gauntlets, boots, and apron.

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Eye protection

Protective Clothing

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Acute Dermal Toxicity : Low toxicity: LD 50 >2000 mg/ kg, Rat Acute Inhalation Toxicity :: Low toxicity: LD 50 greater than the near-saturated vapour concentration / 4 hours, Rat. High concentration 2 hours, Rat. High concentration inhalation may result in unconsciousness and/ or death. Skin Irritation :: May cause moderate skin irritation (but insufficient to classift). Profonged/repeated contact may cause defating of the skin which can lead to demattits. :: Inhalation of vapours or mists may cause inflation to the respiratory irritation Sensitization :: Inhalation of vapours or mists may cause inflation to the respiratory system. Sensitization :: Inhalation of vapours or mists may cause inflation to the respiratory system. Repeated Dose Toxicity :: Additory system: prolonged and repeated exposure to high concentrations have resulted in hearing loss in rates. Solvent abuse and noise interaction in the work environment may cause hearing loss. Centra nervous system: repeated exposure of hearing loss. Centra nervous system: repeated exposure of hearing loss. Centra nervous system: repeated exposure of hearing loss. Centra nervous system: repeated exposure to high concentrations have resulted in hearing loss in rates. Solvent abuse and noise interaction in the work environment may cause hearing loss. Centra nervous system: repeated exposure of the spectred to be nutagenic. Carcinogenicity : Dot expected to be nutagenic. Carcinogenicity : Dispocial tower tebrates Aquae : Harmful: 10 < LC/		
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Eye Irritation : Essentially non-irritating to eyes. Respiratory Irritation : Inhalation of vapours or mists may cause irritation to the respiratory system. Sensitization : not a skin sensitizer. Repeated Dose Toxicity : not a skin sensitizer. Repeated Dose Toxicity : Auditory system. Mutagenicity : not a skin sensitizer. Mutagenicity : not expected to be mutagenic. Carcinogenicity : Limited evidence of carcinigenic effect. (Ethylbenzene) Reproductive and : Causes toetooxicity in animals at doses which are maternall toxic. Developmental Toxicity : Harmful: 10 < LC/ EC/ICS0 <= 100 mg/l	Skin Irritation	Prolonged/ repeated contact may cause defatting of the skin
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14. TRANSPORT INFORMATION

ADR Class Packing Group Classification Code Hazard identification no. UN no. Danger label (primary risk) Proper shipping name	: 3 : III : F1 : 30 : 1300 : 3 : Turpentine substitute
RID Class Packing Group Classification Code Hazard identification no. UN no. Danger label (primary risk) Proper shipping name	: 3 : III : F1 : 30 : 1300 : 3 : Turpentine substitute
IMDG Identification No. Proper shipping name Class/ Division Packing group Marine Pollutant	: UN 1300 : Turpentine substitute : 3 : III : Yes
IATA (Country variations may apply) UN No. Proper shipping name Class/ Division packing Group	: 1300 : Turpentine substitute : 3 : III

15. REGULATORY INFORMATION

The regulatory is not intended to be comprehensive. Other regulations may apply to this material.

EC Label Name EC Label / EC Number EC Classification EC Annex I Number	: LOW AROMATIC WHITE SPIRIT : 265- 185- 4 : Flammable. harmful. Dangerous for the environment. : Xn Harmful. N Dangerous for the environment.
EC Risk Phrase	 : R10 flammble : R65 harmful: May cause lung damage if swallowed. : R66 repeated exposure may cause skin dryness or cracking. : R67 Vapours may cause drowsiness and dizziness. : R51/53 Toxic to aquatic organisms, may cause long- term adverse effects in the aquatic environment.
EC Safety Phrase	: S23 Do not breathe vapour. : S24 Avoid contact with the skin. : S61 Avoid release to the environment. refer to special instructions/ safety data Sheet.

DISCLAIMER

DISCLAIMER This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

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: S 61 if swallowed, do not include vomiting: seek medical advice immediately and show this container or label. Other Information : 94/69/EC (21 st ATP). The benzene content of this product is less than 0.1 %. Nota P applies. Classification and labelling as carcinogen (R45) is not required. **16. OTHER INFORMATION** Additional Information : This material safety data sheet refers to the regulatory requirements for the EU and does not contain any country specific legislation. The information contain herein in based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health. No warranty or safety guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product. For further information, contact your local company or agent. R-phrase (s) **R10** : Flammable **R20** : Harmful by inhalation R36/37/38 : Irritating to eyes, respiratory, and skin : Toxic to aquatic organisms, may cause long-term adverse R51/53 effectsin the aquatic environment **R65** : Harmful: may cause lung damage if swallowed. : Repeated exposures may cause skin dryness or cracking. **R66 R67** : Vapours may cause drowsiness and dizziness. **MSDS VERSION nUMBER** : 1.6 **MSDS Effective Date** : 20.10.209 **MSDS Revisions** : A vertical bar (I) in the left margin indicates an amendment from the previous version. : The content and format of this safety data sheets is in **MSDS Regulations** accordance with Commission Directive 2001/58/EC of 27th July 2001, amending for the second time Commission Directive 91/155/EC. : Industrial Solvent. **Uses and Restrictions MSDS Distribution** : The information in this document should be made available to all who may handle the product. Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirement only. It should not therefore be construed as guaranteeing any specific property of the product.

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