



TAG SOLVENT PRODUCTS (PTY)LTD.

MATERIAL SAFETY DATA SHEET LA WHITE SPIRITS 3.5%

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common name	: LA White Spirits (low aromatic white spirits).
Supplier	: TAG Solvent Products Mallet Road/Weg Knights Germiston 1401 Republic of South Africa TEL: +27 11 822-1600
Synonym	: Not available.
Trade name	: LA White Spirits 3.5%

2 COMPOSITION / INFORMATION ON INGREDIENTS

Name	
Aromatics	3.5%
Aliphatics	96.5%

3 HAZARDS IDENTIFICATION

Physical state and appearance	: Liquid.
Emergency overview	: WARNING! FLAMMABLE. Harmful if swallowed – aspiration hazard. Likely to cause skin irritation Toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.
Routes of entry	: Eye contact. Ingestion. Inhalation. Skin contact.
Potential chronic health effects	: CARCINOGENIC EFFECTS: Not listed. MUTAGENIC EFFECTS: Not listed. TERATOGENIC EFFECTS: Not listed

See toxicological information (section 11)

4 FIRST AID MEASURES

Eye contact	: Check for and remove any contact lenses. Wash eyes thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Skin contact	: Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.
Inhalation	: If fumes are inhaled the patient should be removed to fresh air and if recovery is not immediate, medical assistance must be called without delay. If not breathing give artificial respiration. If breathing is laboured, give oxygen. Get medical attention.
Ingestion	: If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of the product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.
Notes to physician	: Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.

5	<i>FIRE FIGHTING MEASURES</i>
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Flammability of the product	: Flammable.
Flash points (PMC)	: ASTM D 93 °C 43
Fire fighting media and instructions	: Use foam, dry powder or water fog. DO NOT USE water jets.
Protective clothing (fire)	: Be sure to use an approved/certified respirator or equivalent.
Special remarks on fire and explosion hazards	: For major fires call the fire service. Ensure an escape path is always available from any fire. There is a danger of flashbacks if sparks or hot surfaces ignite vapour. Any spillage should be regarded as a potential fire risk.
Combustion Products	: Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity, Section 10 of this safety data Sheet.
Fire fighting procedures	: FIRES IN CONFINED SPACES SHOULD BE DEALT WITH BY TRAINED PERSONNEL wearing approved breathing apparatus.

6	<i>ACCIDENTAL RELEASE MEASURES</i>
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General spillage or leak procedures	<p>: Any spillage or leak is a severe fire and/or explosion hazard. In the event of a spillage, remove all sources of ignition and ensure good ventilation. Spilled material may make surfaces slippery. Clean up spilled material immediately.</p> <p>Evacuate all non-essential personnel from the immediate area. Wear protective clothing. See Exposure Controls/Personal Protection, section 8, of this Safety Data Sheet.</p> <p>Protect drains from potential spills to minimize contamination. Do not wash product into drainage system.</p> <p>Vapour is heavier than air and may travel to remote sources of ignition (e.g. along drainage systems, in basements etc.).</p> <p>If spillage occurs in a confined space, ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry. In the case of spillage on water, prevent the spread of the product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies. In the case of spillage at sea approved dispersants may be used where authorized by the appropriate government/regulatory authorities. In the event of spillages contact the appropriate authorities. Regular surveillance on the location of the spillage should be maintained.</p>
Small spill or leak	<p>: Contain and recover spilled material using sand or other suitable inert absorbent material.</p>
Large spill or leak	<p>: Recovery of large spillages should be effected by specialists personnel. Large and uncontained spillages should be smothered with foam to reduce the risk of ignition. The foam blanket should be maintained until the area is declared safe. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage, which may be reasonably anticipated.</p>

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HANDLING AND STORAGE

Handling	<p>: Avoid as far as reasonably practical, inhalation of vapour, mists or fumes generated during use.</p> <p>Use only with adequate ventilation.</p> <p>Avoid contact with skin and observe good personal hygiene.</p> <p>Avoid contact with eyes. If splashing occurs wear full face visor or chemical goggles as appropriate.</p> <p>Do not siphon product with mouth.</p> <p>Whilst using, do not eat, drink or smoke.</p> <p>Wash hands thoroughly after contact.</p> <p>Take all necessary precautions against accidental spillage into soil or water.</p>
Storage	<p>: Store and dispense only in well-ventilated areas away from heat and sources of ignition.</p> <p>Store and use only in equipment/containers for use with this product. Containers must be properly labeled and kept closed when not in use. Do not remove warning labels from containers. Empty packages may contain some remaining product. Retain hazard-warning labels on empty packages as a guide on the safe handling, storage and disposal of empty packaging.</p> <p>Do not enter storage tanks without breathing apparatus unless the tank has been well ventilated and the tank atmosphere has been shown to contain hydrocarbon vapour concentrations < 1% of the lower flammability limit and an oxygen concentration of at least 20%.</p>

Fire prevention	<p>: Light hydrocarbon vapours can build up in the headspace of tanks. These can cause flammability /explosion hazards even at temperatures below the normal flash points (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapour in tank headspaces). Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, ullaging and sampling from storage tanks.</p> <p>When the product is pumped (e.g. during filling, discharged or ullaging) and when earthed or bonded to the tank structure.</p> <p>Explosive air/vapour mixtures may form at ambient temperature. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.</p> <p>Empty containers represent a fire hazard as they may contain some remaining flammable product and vapour. Never cut, weld, solder or braze empty containers</p>
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8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	: There is no appropriate occupational exposure limit for this material. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonable practicable level.
Personal protection	
Body	
Eyes	: Chemical Splash goggles / face visor where accidental eye contact may occur..
Respiratory	: Chemical resistant protective suite (impervious protective clothing). : Vapour respirator. Be sure to use an approved/certified or equivalent. Wear appropriate respirator when ventilation is inadequate. The use of respiratory equipment must be strictly in accordance with the manufacturers instructions and ant statutory requirements governing its selection and use.
Hands	: PVC or rubber gloves.
Feet	: Chemical resistant safety boots.
Protective clothing	: Splash goggles. Full chemical resistant protective suit. Vapor respirator. Butyl gloves. Chemical resistant boots.
Personal protection in case of large spills	: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. The use of respiratory equipment must be strictly in accordance with the manufacturers instructions and ant statutory requirements governing its selection and use.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	: Liquid.
Colour	: Colourless. Clear.
Odor	: Solvent.
Boiling point /range	: ASTM D 93 (test method) °C (unit) 154 - 205
Density @ 15°C	: ASTM D 1298 (test method) kg/m ³ (unit) 770

10	STABILITY AND REACTIVITY
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Stability and reactivity	: The product is stable at ambient temperatures. Hazardous polymerization reactions will not occur.
Incompatibility with various substances	: Reactive with strong oxidizing agents.
Hazardous decomposition products	: Thermal decomposition will vary with conditions. Incomplete combustion will generate smoke, CO ₂ and hazardous gases including carbon monoxide.

11	TOXICOLOGICAL INFORMATION
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Eyes	: Unlikely to cause more than transient stinging or redness of accidental eye contact occurs. May be irritating to the eyes at high concentrations of vapour, mists or fumes.
Skin	: Likely to cause skin irritation.
Ingestion	: Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea. Will injure lungs if aspiration occurs, e.g. during vomiting.
Inhalation	: May cause irritation to eyes, nose and throat due to exposure to vapour, mist or fumes.

12	ECOLOGICAL INFORMATION
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Mobility	: Spillages may penetrate the soil causing ground water contamination.
Persistence and degradability	: This product is inherently biodegradable.
Bioaccumulative potential	: There is no evidence to suggest bioaccumulation will occur.
Aquatic toxicity	: Toxic to aquatic organisms. May cause long-term effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13	DISPOSAL
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Product disposal	: Dispose of via an authorized person/licensed waste disposal contractor in accordance with local regulations. Dispose of product carefully and responsibly. Do not dispose of product near ponds, ditches, down drains or onto soil.
Container disposal	: Do not dispose of containers near ponds, ditches, down drains or onto soil. Empty packages may contain some remaining product. Hazard warning labels should not be removed from empty containers as they may still contain some product. Hazard labels are a guide to the safe handling of empty packaging and shouldn't be removed.

14	TRANSPORT INFORMATION
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ADR/RID Classification	: Kerosene , Flammable liquid, class 3, Item 13(c), Hazardous Identification No 30
UN	: KEROSENE, Flammable liquid, Class 3, Pack Group III, UN number 1223
IATA/ICAO	: Kerosene, Flammable liquid, Class 3, Pack Group III
IMO	: Flammable liquid, Class 3.3, Pack Group iii
EMERGENCY ACTION CODE	: Flammable liquid, 3[Y]E

15	REGULATORY INFORMATION
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EU Category of Danger	: Flammable. Harmful. Irritant. Dangerous for the environment.
EU labeling	: Symbol - St. Andrew's Cross, Dead tree and fish Indication of danger -FLAMMABLE, HARMFUL, DANGEROUS FOR THE ENVIRONMENT.
Risk phrases	: R10 – Flammable. R38 – Irritating to skin. R65 – Harmful: may cause lung damage if swallowed. R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	: S21 – Avoid contact with skin. S23 – Do not breathe vapour. S43 – In case of fire use foam or dry powder. Never use water jets. S62 – If swallowed, do not induce vomiting: Seek medical advice immediately and show the container or label. S61 – Avoid release into the environment. Refer to special instructions/Safety data sheets.
	The label must carry the following additional information: "EC Label", Toluene, 203-625+9

16	OTHER INFORMATION
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Date of Printing	: 02/03/2004
Date of issue	: 02-03-2004

Notice to reader:

This MSDS summarizes at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use and transport the product in the workplace. Since TAG Solvent Products (PTY) LTD. and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is required to ensure that an appropriate assessment can be made, the user should contact the company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for the product as sold is subject to our standards terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk with possession and application of the product passes on delivery.

