



TAG SOLVENT PRODUCTS (PTY) LTD.

MATERIAL SAFETY DATA SHEET ***TAGSOL 150***

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common name	: Tagsol 150		
Supplier	: TAG Solvent Products Mallet Road/Weg Knights Germiston 1401 Republic of South Africa TEL: +27 11 822-1600		
Synonym	: Petroleum hydrocarbons.		
Trade name	: Tagsol 150		
Material uses	: Industrial applications: Manufacture of intermediates. Solvents for resins, fats, oils, fatty acids and hydrocarbons. Pharmaceutical industry: Manufacture of pharmaceutical products.		

2 COMPOSITION / INFORMATION ON INGREDIENTS

Potentially health hazardous ingredients.	CAS#	% By Weight
1. Heavy aromatic petroleum solvent	64742-94-5	95
2. Medium aliphatic petroleum solvent	64742-88-7	5

See section 8 for exposure limits (if applicable).

3 HAZARDS IDENTIFICATION

Physical state and appearance	: Liquid.
US OSHA Hazard Communication Standard	: Product assessed in accordance with OSHA 29 CFR 1910.1200 And determined to be hazardous.
Routes of entry	: Eye contact. Ingestion. Inhalation. Skin contact.
Effects of overexposure	: Respiratory irritation, dizziness, nausea, loss of consciousness. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.
Emergency response data	: Colourless liquid. Material is combustible. Vapour density Heavier than air. DOT ERG No. – 27.

See section 11 for additional Biological Hazards (if applicable).

4 *FIRST AID MEASURES*

Eye contact	: Check for and remove any contact lenses. Immediately flush the eyes with running water for 15 minutes, keep eyelids open. Get medical attention.
Skin contact	: Wash contact area with soap and water. Remove the contaminated clothing and shoes. Wash clothes before reuse. Thoroughly clean shoes before reuse. Do not wear ordinary clothing wet with this product.
Inhalation	: If inhaled, remove to fresh air (away from further exposure). If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek medical assistance and call a doctor. If breathing ceases, give mouth-to-mouth resuscitation.
Ingestion	: DO NOT induce vomiting unless directed to do so by medical personnel. Give 1 to 2 glasses of water. Do not induce vomiting or give anything by mouth to an unconscious patient. Get medical attention.
Notes to physician	: Material if aspirated into lungs may cause chemical pneumonitis. Treat appropriately.

5 *FIRE FIGHTING MEASURES*

Flammability of the product	: Flammable
Flash points (ASTM D-56)	: 60°C
Flammable limits	: LEL: 0.8%, UEL 6.0%
Extinguishing media	: Carbon dioxide, foam, dry chemical and water fog.
Special fighting procedure	: Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop the leak. Water spray may be used flush spills away from water exposures. Prevent runoff from fire control or dilution from fire control or dilution from entering streams, sewers or drinking water supply.
Special protective equipment.	: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
Unusual fire and explosion hazards	: Material is combustible. Vapour density is heavier than air.
Hazardous decomposition products	: Carbon monoxide.
NEPA Hazard ID.	
Health	: 0
Flammability	: 2
Reactivity	: 0

6 *ACCIDENTAL RELEASE MEASURES*

Notification procedures	: Report spills as required to appropriate authorities.
Procedures if material is released or spilled	: Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
Environmental precautions	: Prevent spills from entering storm sewers or drains and contact with soil.
Personal precautions	: See Section 8

7 *HANDLING AND STORAGE*

Handling	: Avoid prolonged repeated skin contact. Avoid contact with eyes. Avoid contact with skin. Avoid inhalation of vapours or mists.
Storage	: Store in a cool area.

8 *EXPOSURE CONTROLS, PERSONAL PROTECTION*

Ventilation	: Use in well ventilated area. Ventilation desirable and equipment should be explosion proof.
Personal protection	
Body	
Eyes	: Splash goggles (Chemical type goggles should be worn).
Respiratory	: Chemical resistant protective suite. Good hygiene practices should always be followed.
Hands	: Vapour respirator. Be sure to use an approved/certified or equivalent. Wear appropriate respirator when vapour or mist concentration exceed applicable standards.
Feet	: If prolonged or repeated skin contact is likely, imperious gloves (Butyl rubber gloves) should be worn. Good hygiene practices should always be followed.
Protective clothing	: 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
Threshold Limit Value (TLV)	: 100.00ppm

Substance name	# CAS number	Occupational Exposure limit
Heavy aromatic petroleum	64742-94-5	ACGIH LTEL: 100ppm LTEL: 525 mg/g ³

NOTE: Limits shown for guidance only. Follow applicable regulations.

9 *PHYSICAL AND CHEMICAL PROPERTIES*

Physical state and appearance	: Liquid.
Colour	: Colourless. Clear.
Odor	: Aromatic
Auto flammability	: NE
Flammability	: NA
Flashpoint	: 60°C (ASTM D-93)
PH (1% soln/water)	: NA
Boiling/condensation point	: >179°C (IBP)
Melting/freezing point	: NA
Explosive properties	: NA
Oxidizing properties	: NA
Vapor pressure	: <10 mm of Hg (@20°C)
Vapor density	: NA
Volatile ORGANIC COMPOUND	: NE.
Odor threshold	: NA
Evaporation rate	: NA
Density, 15/4 °C	: 0.879
Partition coefficient	: NE
Viscosity at 40°C. CST	: <7.5°C
Viscosity at 100°C, CST	: NE
Pour Point °C	: NA
Solubility (in water)	: Negligible.
Freezing point	: NE
VOC	: NE

NA = Not applicable; NE = Not established; D = Decomposes

10 STABILITY AND REACTIVITY

Stability (thermal, light, etc.)	: The product is stable.
Conditions of instability	: Heat, Sparks, flames and build-up of static electricity.
Incompatibility with various material	: Reactive with strong oxidizers.
Hazardous decomposition products	: Carbon monoxide
Hazardous polymerization	: Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute toxicity	: Acute oral toxicity (LD50): >200 but <or= 2000mg/kg [Rat]. Acute dermal toxicity (LD50): > 2000mg/kg (practically non-toxic) Inhalation toxicity (LD50) ;> 2 mg/l but <or= 5mg/l (Harmful). (Rats). Eye irritation: Irritant. Draize score: >15 but <36 (rabbit) Skin irritation: Irritant. Primary irritation Index: 3 or > but <5. (Rabbits).
Genetic toxicity (summary)	: Negative in a series of assays on similar substances.
Reproductive toxicity (summary)	: Teratology studies with similar material were negative.

Chronic toxicity (summary)	: Certain straight-run distillates have been found to produce skin tumors in laboratory mouse skin-painting tests, but these have usually been associated with high level skin irritation. Tests conducted have determined that the irritation produces the tumors. Therefore, if the precautions outlined in this SMDS are followed to minimize repeated or prolonged skin contact, which could cause irritation, these oils should pose no carcinogenic hazard to humans. Animal studies with similar materials by inhalation for 12 months showed no significant neurotoxin, blood, kidney or other effects. Prolonged repeated skin contact with low viscosity materials may defat skin resulting in possible irritation and dermatitis.
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12 ECOLOGICAL INFORMATION

Environmental fate and effects	: Not established.
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13 DISPOSAL CONSIDERATIONS

Waste Disposal	: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristic at times of disposal.
RCRA Information	: Disposal of unused product may be subjects to RCRA regulations (40CFR 261) due to the characteristic (s) / chemical (s) listed below. Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). FLASH: 41°C

Consult your local or regional authorities.

14 TRANSPORT INFORMATION

DOT Classification	: Not regulated by USA DOT.
Shipping name	: Combustible liquid, n.o.s. (contains MEDIUM ALIPHATIC PETROLEUM SOLVNET)
Hazard Class & DIV	: Combustible liquid.
ID number	: NA1268
ERG number	: 27 II
Packing group	: PG III
STCC	: NE
Dangerous when wet	: No
Poison	: No
Label (s)	: NA
Placard (s)	: Combustible.
Product RQ	: NA
Marpol III Status	: NA

IMO Classification	
Shipping name	: Flammable Liquid, n.o.s. (contains MEDIUM ALIPHATIC PETROLEUM SOLVNET)
Hazard Class & DIV	: 3.3
Packing group	: PG III
UN number	: 1268
Label (s)	: Flammable liquid
Marpol III status	: NA
IATA/ICAO Classification	
Shipping name	: Flammable Liquid, n.o.s. (contains MEDIUM ALIPHATIC PETROLEUM SOLVNET).
Hazard Class & DIV	: 3G II
Packing group	: PG III
Un/ID number	: 1268
Label (s)	: Flammable liquid.
Subsidiary Risk	: NA

15 REGULATORY INFORMATION

Governmental Inventory Status	: All components comply with TSCA, and EINECS/ELINCS.
U.S. Superfund Amendments and Reauthorization Act (SARA) Titles III	: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA 311/312 Reportable hazard categories: FIRE CHRONIC ACUTE. SARA 313 toxic chemical notification and release: no product found.
EU classification & labeling:	
Symbol/Classification	
Risk phrases	: Xn Harmful. : R36-38-20-22 – Irritating to eyes and skin. Harmful by inhalation and if swallowed.
Safety phrases	: S36/37/39-38-26 – wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment. In case of eye contact, rinse immediately with plenty of water and seek medical advice.

The following product ingredients' are cited on the list below:

Chemical Name	CAS#	List Citations
1. Medium Aliphatics Petroleum Solvent	64742-88-7	18, 19, 20, 23, 25
2. Heavy Aromatic Petroleum Solvent	6472-94-5	1, 18, 19, 20, 23, 25

REGULATORY LISTS SEARCHED

1 = ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	7 = IARC 2A	12 = TSCA 5a 2	18 = CA RTK	23 = RTK
3 = ACGIH AS	8 = IARC 2B	13 = TSCA 5e	19 = FL RTK	24 = NJ RTK
4 = NTP CARC	9 = OSHA CARC	14 = TSCA 6	20 = IL RTK	25 = PA RTL
5=NTP SUS	10 = OSHA Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

CODE KEY:

CARC = carcinogen SUS = Suspected Carcinogen

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OTHER INFORMATION

OSHA Precautionary Label Text	<p>: PETROLEUM DISTILLATE</p> <p>DANGER. HARMFUL IF INHALED HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE LIQUID AND VAPOUR MAY CAUSE SKIN IRRITATION ON PROLONGED CONTACT.</p> <p>AVOID BREATHING OF VAPOUR OR MIST. KEEP AWAY FROM HEAT AND FLAME. KEEP CONTAINERS CLOSED. USE ONLY WITH ADEQUATE VENTILATION. AVOID WEARING OF CLOTHING SOAKED WITH MATERIAL.</p> <p>FIRST AID: if swallowed, do not induce vomiting unless directed by a doctor. Get medical attention immediately. Never give anything by mouth to an unconscious patient. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention. In case of skin contact, wash contact areas with soap and water. Remove clothing wet with material. Wash clothing before reuse.</p> <p>For industrial use only.</p> <p>Not intended or suitable for use by a doctor. Not intended or suitable for use in or around a household or dwelling.</p> <p>ATTENTION!! Empty containers may contain product residue, including flammable or explosive vapours. Do not cut, puncture or weld on or near containers. All label warnings and precautions must be observed until the container has been thoroughly cleaned or destroyed.</p> <p>Refer to product material Safety Data Sheets for further safety and handling information</p>
Other special considerations	: No additional remarks.
Date of Printing	: 27/02/2004
Date of issue	: 27/02/2004

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 standard 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.