



Infosafe No™	1CHLI	Issue Date : September 2019	RE-ISSUED by ABS
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Product Name : **TAN SOLVENT**

Classified as hazardous

1. Identification

GHS Product Identifier TAN SOLVENT

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Total Acid Number Solvent for ASTM D664

Other Names**Name****Product Code**

TAN SOLVENT

TS184

Total Acid Number for ASTM D664

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture Aspiration Hazard: Category 1
Eye Damage/Irritation: Category 2A
Flammable Liquids: Category 2
Specific Target Organ Toxicity - Repeated Exposure Category 2
Skin Corrosion/Irritation: Category 2
Specific Target Organ Toxicity - Single Exposure Category 3
Toxic to Reproduction: Category 2

Signal Word (s)

DANGER

Hazard Statement (s)

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Pictogram (s)**Precautionary statement – Prevention**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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/ventilating/lighting/.../equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.



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Precautionary statement – Response

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P370+P378 In case of fire: Use foam, dry chemical, CO2 or water spray for extinction.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

Precautionary statement – Storage**Precautionary statement – Disposal****3. Composition/information on ingredients**

Chemical Liquid

Characterization**Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Isopropyl alcohol	78-92-2	40-60 %		
Toluene	108-88-3	40-60 %		
Water	7732-18-5	0-1 %		

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Skin Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

Other Information For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures**Hazards from Combustion** May liberate toxic fumes in fire.**Products****Specific Methods**

Caution: Use of water spray when fighting fire may be inefficient.
Small fire: Use foam, dry chemical, CO2 or water spray for extinction.
Large fire: Use foam, fog or water spray - Do not use water jets.
If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside the containers.



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Specific hazards arising from the chemical HIGHLY FLAMMABLE: These products have a low flash point - Will be easily ignited by heat, sparks or flames at ambient temperatures.
Vapours will form explosive mixtures with air.
Vapours will travel to source of ignition and flash back.
Fire may produce irritating, poisonous and/or corrosive gases.
Containers may explode when heated.
Liquid is lighter than water.
Vapour is heavier than air and will collect in low or confined areas (drains, basements, tanks). Vapours from run-off may create an explosion hazard.

Hazchem Code 3YE

Precautions in connection with Fire SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

6. Accidental release measures

Spills & Disposal ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50m - All equipment used in handling the product must be earthed.
Do not touch or walk through spilled material.
Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas.
Vapour-suppressing foam may be used to control vapours.
Absorb spill with earth, sand or other non-combustible material - Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal. Water spray may be used to knock down or divert vapour clouds.
SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions Evacuate the area of all non-essential personnel. Extinguish naked flames. Remove ignition sources
Take precautionary measures against static discharge. Avoid inhalation, contact with skin, eyes and clothing.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

7. Handling and storage

Precautions for Safe Handling Avoid prolonged or repeated contact with skin, eyes and clothing . Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material. Take precautionary measures against static discharges. All electrical equipment must be flameproofed.

Conditions for safe storage, including any incompatibilities Store in a cool,dry place. Store in well ventilated area. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed at all times.
Store at 5 - 30 °C.

Storage Regulations Refer Australian Standard AS 1940-2017 'The storage and handling of flammable and combustible liquids'.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m ³	ppm	mg/m ³	ppm	
	Isopropyl alcohol			303	100	
	Toluene	574	150	191	50	

Other Exposure Information These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
A time weighted average (TWA) has been established for Isopropyl alcohol (Safe Work Australia) of 983 mg/m³, (400 ppm) and for Toluene (Safe Work Australia) of 191 mg/m³, (50 ppm). The corresponding STEL levels are 1230 mg/m³, (500 ppm) for Isopropyl alcohol and 574 mg/m³, (150 ppm) for Toluene. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average



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	airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.
Respiratory Protection	An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. If significant mists, vapours or aerosols are generated an approved respirator is recommended, selected and used in accordance with AS/NZS 1715 and AS/NZS 1716. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Liquid
Appearance	Colourless liquid.
Odour	Alcohol-like odour.
Solubility in Water	Slightly miscible
Vapour Density (Air=1)	Vapours heavier than air
Flash Point	Isopropyl alcohol: 12 °C closed cup; 17 °C open cup. Toluene: 4 °C closed cup; 16 °C open cup.
Flammability	Flammable.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Exposure to moisture. Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Alkali metals, alkaline earth metals, aluminium, aldehydes, amines, nitric acid, nitrogen oxides, oxidizing agents (i.e. peroxi compounds, perchlorates, perchloric acid, nitric acid, oxygen), organic nitro compounds, oleum/sulfuric acid, halogens, halogen-halogen compounds, hydrogen-palladium, iron and their salts, phosgene, potassium t-butoxide nitroform, sulfur, rubber and various plastics.
Hazardous Decomposition Products	Oxides of carbon.
Possibility of hazardous reactions	Contact with strong oxidising agents (e.g. nitrates, perchlorates, peroxides) increases risk of fire and explosion. Contact with phosgene forms isopropyl chloroformate and hydrogen chloride. Explosive thermal decomposition may occur in contact with iron salts. Mixture with hydrogen-palladium can ignite in air. Formation of peroxides possible with air.
Hazardous Polymerization	Will not occur.

11. Toxicological Information



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Ingestion	May cause drowsiness, gastrointestinal pain, cramps, nausea, vomiting and diarrhea. Risk of aspiration! Large amounts may cause chemical pneumonitis, respiratory paralysis, and coma.
Inhalation	May cause irritation, drowsiness, dizziness, ataxia and deep narcosis. May affect central nervous system. Symptoms include tiredness, muscle weakness, headache, confusion, poor coordination, nausea and vomiting. Large doses may cause unconsciousness and death.
Skin	Causes serious skin irritation. Degreasing effect on the skin, possibly followed by secondary inflammation.
Eye	Causes serious eye irritation.
Carcinogenicity	Not classified as a human carcinogen.
STOT-single exposure	Specific Target Organ Toxicity - Single Exposure Category 3. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
STOT-repeated exposure	Specific Target Organ Toxicity - Repeated Exposure Category 2. H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	Specific Target Organ Toxicity - Single Exposure Category 3 Aspiration Hazard: Category 1. H304 May be fatal if swallowed and enters airways. Risk of aspiration upon vomiting: pneumonia. Pulmonary failure possible.
Chronic Effects	Repeated or prolonged skin contact can cause drying, cracking and dermatitis. Prolonged or over exposure may lead to CNS disorders, spasms, respiratory arrest, liver damage and coma.
Mutagenicity	Toxic to Reproduction: Category 2. H361 Suspected of damaging fertility or the unborn child.

12. Ecological information

Ecological Information	Adverse ecological effects cannot be excluded in the event of improper handling or disposal. No ecology data available for this product.
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13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following: Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane, Class 7.
U.N. Number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class(es)	3
Hazchem Code	3YE
Packing Group	II
EPG Number	3A1
IERG Number	14

15. Regulatory information

Regulatory Information	All of the significant ingredients in this formulation are compliant with NICNAS regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',
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Safety Data Sheet

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**Contact
Person/Point**

Standards Australia/Standards New Zealand, 2010.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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