

## Safety Data Sheet TAN SOLVENT

SDS no. RUF9NM3A • Version 1.0 • Date of issue: 2024-09-16

### SECTION 1: Identification

#### GHS Product identifier

Product name TAN SOLVENT

Product number TS184

#### Recommended use of the chemical and restrictions on use

Total Acid Number Solvent for ASTM D664

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

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.

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 2A

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- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity following repeated exposure, Cat. 2
- Specific target organ toxicity following single exposure, Cat. 3
- Toxic to reproduction, Cat. 1
- Flammable liquids, Cat. 2
- Aspiration hazard, Cat. 1

### GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

**Danger**

#### Hazard statement(s)

H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

#### Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use agents recommended in Section 5 of SDS for extinction
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.

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P405  
P501

Store locked up.  
Dispose of contents/container to an approved waste disposal facility

### SECTION 3: Composition/information on ingredients

#### Mixtures

Other components either not classified as Hazardous under the GHS, or below cut-off concentrations to be classified as Hazardous.

#### Components

Component	CAS no.	Concentration
<b>Isopropanol (EC no.: 200-661-7; Index no.: 607-403-00-6)</b>	<b>67-63-0</b>	<b>40 - 60 % (volume)</b>
CLASSIFICATIONS: Flammable liquids, Cat. 2; Serious eye damage/eye irritation, Cat. 2A; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation; H336 - May cause drowsiness or dizziness.		
<b>Toluene (EC no.: 203-625-9; Index no.: 601-021-00-3)</b>	<b>108-88-3</b>	<b>40 - 60 % (volume)</b>
CLASSIFICATIONS: Flammable liquids, Cat. 2; Toxic to reproduction, Cat. 2; Aspiration hazard, Cat. 1; Specific target organ toxicity following single exposure, Cat. 3; Specific target organ toxicity following repeated exposure, Cat. 2; Skin corrosion/irritation, Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H336 - May cause drowsiness or dizziness; H361d - ; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route].		

### SECTION 4: First-aid measures

#### Description of necessary first-aid measures

If inhaled	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.
In case of skin contact	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.
In case of 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.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

#### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Caution: Use of water spray when fighting fire may be inefficient.

Small fire: Use foam, dry chemical, CO<sub>2</sub> 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.

#### Specific hazards arising from the chemical

Hazards from Combustion Products: May liberate toxic fumes in fire.

**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.

**Special protective actions for fire-fighters**

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

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**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Wear respiratory equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**Methods and materials for containment and cleaning up**

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.

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**SECTION 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 at 5 - 30 °C.

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.

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**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**CAS: 108-88-3 (EC: 203-625-9)**

Toluene

AU/SWA (Australia): 150 ppm; 574 mg/m<sup>3</sup> STEL inhalation; 50 ppm; 191 mg/m<sup>3</sup> TWA inhalation

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**CAS: 67-63-0**

Isopropanol

AU/SWA (Australia): 500 ppm; 1230 mg/m<sup>3</sup> STEL inhalation; 400 ppm; 983 mg/m<sup>3</sup> TWA inhalation;

### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face 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.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### 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.

#### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Colourless liquid.
Color	No data available.
Odor	Alcohol-like odour.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	Highly Flammable
Lower and upper explosion limit/flammability limit	LFL: 1.1% (TOLUENE); 2% PROPAN-2-OL UFL: 7% (TOLUENE); 12% PROPAN-2-OL
Flash point	Isopropyl alcohol: 12 °C closed cup; 17 °C open cup. Toluene: 4 °C closed cup; 16 °C open cup.
Explosive properties	No data available.
Auto-ignition temperature	480C (TOLUENE); 389C (PROPAN-2-OL)
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Slightly miscible

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Partition coefficient n-octanol/water (log value)  
Vapor pressure  
Evaporation rate  
Density and/or relative density  
Relative vapor density  
Particle characteristics

No data available.  
No data available.  
No data available.  
No data available.  
Vapours heavier than air  
No data available.

#### Supplemental information regarding physical hazard classes

No data available.

#### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

Risk of ignition. Vapours may form explosive mixtures with air

### Chemical stability

Stable under recommended storage conditions.

### 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.

### Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

### 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.

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Isopropanol: Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

### Hazardous decomposition products

Oxides of carbon.

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Isopropanol: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### Information on toxicological effects

**Acute toxicity**

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 corrosion/irritation**

Causes serious skin irritation. Degreasing effect on the skin, possibly followed by secondary inflammation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Based on available data, classification data are not met

**Carcinogenicity**

Based on available data, classification data are not met

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child

**Specific target organ toxicity (STOT) - single exposure**

Specific Target Organ Toxicity - Single Exposure Category 3. H335 May cause respiratory irritation.

**Specific target organ toxicity (STOT) - repeated exposure**

Specific Target Organ Toxicity - Repeated Exposure Category 2. H373 May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

Aspiration Hazard: Category 1. H304 May be fatal if swallowed and enters airways. Risk of aspiration upon vomiting: pneumonia. Pulmonary failure possible.

**Additional information**

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.

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**SECTION 12: Ecological information**

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**SECTION 13: Disposal considerations**

**Disposal methods**

**Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

**Other disposal recommendations**

Do not discharge this material into waterways, drains and sewers.

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## **SECTION 14: Transport information**

### **ADG (Road and Rail)**

UN Number: 1993  
Class: 3  
Packing Group: II  
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (TOLUENE, PROPAN-2-OL)

### **Hazchem emergency action code (EAC)**

•3YE

### **IMDG**

UN Number: 1993  
Class: 3  
Packing Group: II  
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (TOLUENE, PROPAN-2-OL)

### **IATA**

UN Number: 1993  
Class: 3  
Packing Group: II  
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (TOLUENE, PROPAN-2-OL)

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## **SECTION 15: Regulatory information**

### **Safety, health and environmental regulations specific for the product in question**

#### **Australia SUSMP**

Poison Schedule: NS

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## **SECTION 16: Other information**

### **Further information/disclaimer**

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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.

### **Preparation information**

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia



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National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'  
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.  
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.  
Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019  
Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](http://hcis.safeworkaustralia.gov.au)  
IATA, Dangerous Goods Regulations (DGR)  
IMO, International Maritime Dangerous Goods Code (IMDG)