



SDS

SAFETY DATA SHEET





Product
Name: T-1 SOLVENT (as shown on label)

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910200(g). Standards must be consulted for specific requirements.

Section I - Identification

Part #:	T-1 SOLVENT	Manufacturer:	AZ Technology Inc.
Spec/Rev #:	N/A	Address:	180 West Park Loop NW Huntsville AL, 35806
Usage:	Laboratory Chemical	Company Ph.# :	(256) 837-9877
		Emergency #:	(256) 837-9877

Section II - Hazard Identification

Classification of the substance or mixture:	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)					
	H226	Flammable liquids (Category 3)				
	H302	Acute toxicity, Oral (category 4).				
	H332	Acute toxicity, Inhalation (category 4).				
	H315	Skin irritation (category 2).				
	H319	Eye irritation (category 2A).				
	H401	Acute aquatic toxicity (category 2).				
	H411	Chronic aquatic toxicity (category 2).				
Hazard statements:	Highly Flammable liquid and vapor	May cause respiratory irritation	Causes skin irritation	Causes serious eye irritation	May Cause drowsiness or dizziness	Causes damage to organs through prolonged or repeated exposure
Signal Word:	Danger					
Pictograms:						
Precautionary Statements:	P261	Avoid breathing fume/ gas/ mist/ vapors/ spray.				
	P264	Wash skin thoroughly after handling.				
	P270	Do not eat, drink, or smoke when using this product.				
	P271	Use only outdoors or in a well-ventilated area.				

P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P332+P313	If skin irritation occurs get medical advice/ attention.
P337+P313	If eye irritation persists get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.
Notice:	
All following Precautionary Statements refer to a nearly negligible percentage of the total coating	
P301+P312+ P330	If SWALLOWED call poison center/ doctor/ physician if you feel unwell.
P302+P352	If ON SKIN wash with plenty of soap and water.
P304+P340+ P312	If INHALED remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/ 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.

Section III - Composition/Information on Ingredients

Common Name	CAS#	OSHA PEL	ACGIH TLV	NIOSH IDLH	Mexico OEL (TWA)
Toluene	108-88-3	(Vacated) TWA: 100 ppm (Vacated)TWA:375 mg/m ³ Ceiling: 300 ppm (Vacated) STEL: 150 ppm (Vacated)STEL:560mg/m ³ TWA: 200 ppm	TWA: 20 ppm	IDLH: 500 ppm TWA: 100 ppm TWA 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	TWA: 50 ppm TWA: 188 mg/m ³
n-Butyl acetate	123-86-4	(Vacated) TWA: 150 ppm (Vacated)TWA:720 mg/m ³ Ceiling: 200 ppm (Vacated) STEL: 950 ppm (Vacated)STEL:710mg/m ³ TWA: 150 ppm	TWA: 50 ppm STEL: 150 ppm	IDLH: 1700 ppm TWA: 150 ppm TWA 710 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³	TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³
Ethyl alcohol	64-17-5	(Vacated) TWA: 1000 ppm (Vacated)TWA:1900mg/m ³ TWA: 200 ppm TWA: 1900 mg/m ³	STEL: 1000 ppm	IDLH: 3300 ppm TWA: 1000 ppm TWA:1900 mg/m ³	TWA:1000 ppm TWA:1900mg/m ³
Isobutyl alcohol	78-83-1	(Vacated) TWA: 50 ppm (Vacated) TWA: 150 mg/m ³ TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm	IDLH: 1600 ppm TWA: 50 ppm TWA:150 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 75 ppm STEL: 225 mg/m ³

Xylenes	1330-20-7	(Vacated) TWA: 100 ppm (Vacated)TWA:435 mg/m ³ (Vacated) STEL: 150 ppm (Vacated)STEL:655mg/m ³ TWA: 100 ppm TWA: 435 mg/m ³	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 655 mg/m ³
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AZ Technology reserves all rights to mix percentages and methods, withheld as a trade secret.

Section IV - First-Aid Measures

Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Skin Irritation:	Wash skin with soap and water. Obtain medical attention if irritation persists.
Eye Contact:	Immediately flush eyes for at least 15 minutes with copious amounts of water, occasionally lifting upper and lower lids. Obtain medical attention.
Ingestion:	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Important symptoms or effects including acute or delayed:	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Treatment Recommendations (if applicable):	Consult a physician in all cases.

Section V - Fire-Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable Extinguishing Media	Water may be ineffective, Do not use water jet.
Flash Point Method	24 -32.2 °C / 78.1-90 °F
Specific Hazards Arising from the Chemical	This material is a flammable liquid and a dangerous fire hazard when exposed to heat, flame, and oxidizers.
Hazardous Decomposition or Byproducts	Oxides of carbon and nitrogen, methyl alcohol.
Protective Equipment and Precautions for Firefighters	Wear positive self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section VI - Accidental Release Measures

Preventive precautionary measures	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precautions	Should not be released into environment. Do not flush into surface water or sanitary sewer system
Containment and Cleanup procedures	Clean up spilled material into a closed container, following all OSHA, EPA, and Federal rules, regulations, and laws. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section VII - Handling and Storage

Safe handling precautions	Use only under a chemical fume hood. Wear personal protective equipment. DO not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges.
Safe storage recommendations (including incompatibilities)	Store below 80°F in dry location away from oxidizing agents and combustible materials. Eliminate ignition sources. Incompatibilities: oxidizing agents, nitric and sulfuric acids (can be explosive).

Section VIII - Exposure Controls/Personal Protection

See Section III chart for: OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values (TLVs), other limits and/or recommendations

Ventilation and/or enclosure recommendations	Use with adequate ventilation. Local exhaust recommended. Safety shower and eye bath should be within direct access.
PPE recommended	Protective gloves, long sleeved clothing, rubber boots, Handle in accordance with good personal hygiene and safety practice.
PPE requirement	Use NIOSH/MSHA approved cartridge (organic vapor) HEPA type respirator, splash proof goggles.

Section IX - Physical and Chemical Properties

Appearance	Clear colored liquid	Flammability/Explosive Limits	LEL 1.1% UEL 7.0%
Odor	Strong organic solvent odor	Odor Threshold	No information available
PH	Not applicable	Vapor Pressure	8.29 mmHg @ 25°C
Melting Point	None given	Vapor Density	3.66 (Air=1.0)
Freezing Point	None given	Relative Density	None given
Flash Point	24°C	Solubility	Insoluble in water
Boiling Point	78.3°C	Evaporation rate	None given
Viscosity	None given	Flammability (solid, gas)	Not applicable
Decomposition temp	None given	Partition Coefficient: n-octanol/water	No data available

Section X - Stability and Reactivity

Reactivity(suggested by test data)	No data available
Conditions that should be avoided (Incompatible)	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Strong oxidizing agents, Strong acids
Stability	Stable under normal conditions.
Polymerize thresholds	Will not Occur.

Section XI - Toxicological Information

Acute Toxicity	Product/ingredient name				
	Toluene	n-Butyl acetate	Ethyl Alcohol	sobutyl alcoho	Xylene
Oral LD50: Rat	>5,000 mg/kg	10768 mg/kg	3450 mg/kg	2460 mg/kg	3500 mg/kg
Inhalation LC50: Rat	26700 ppm 1 h	390 ppm 4 h	20000 ppm 10 h	> 6.5 mg/L 4 h	29.08 mg/L
Dermal LD50: Rabbit	12000 mg/kg	>17600 mg/kg	Not listed	3400 mg/kg	4350 mg/kg 1700 mg/kg
Chronic Toxicity:	Not Available	Not Available	Not Available	Not Available	Not Available
Corrosion Irritation:	Irritating to eyes, respiratory system and skin	Not Available	Severe eye irritant	Severe eye irritant. Irritating to respiratory system and skin.	Irritating to eyes, respiratory system, and skin.
Sensitization:	Not Available	Not Available	Not Available	Not Available	Not Available
Single Target Organ (STOT):	Not Available	Not Available	Not Available	Not Available	Not Available
Numerical Measures:	Not Available	Not Available	Not Available	Not Available	Not Available
Carcinogenicity:	Not Available	Not Available	IARC: Group 1 ACGIH: A3	Not Available	Not Available
Mutagenicity:	Not Mutagenic	Not Available	Mutagenic effects have occurred in experimental animals	Not Available	Not Available
Reproductive Toxicity:	Experiemnts have shown reproductive toxicity effects on laboratory animals	Not Available	Not Available	Not Available	Experiments have shown reproductive toxicity effects on laboratory animals.
Aspiration Hazard:	Not Available	Not Available	Not Available	Not Available	Not Available

Section XII - Ecological Information (non-mandatory)

Product/ Ingredient name	12.1 Toxicity	12.2 Persistence and degradability	12.3 Bio accumulative potential	12.4 Mobility in soil	12.5 Results of PBT and vPvB assessment	12.6 Other adverse effects

Toluene	The product contains following substances which are hazardous for the environment.	Soluble in water Persistence is unlikely based on information available.	Not Available	Log Pow: 2.7	Not Available	Not Available
n-Butyl acetate	EC50: = 674.7 mg/L, 72h, Lepomis macrochirus: LC50: 100 mg/L/96 h, EC50: 70.0 mg/L 5 min	Persistence is unlikely based on information available.	Not Available	Log Pow: 2.3	Not Available	Do not empty into drains.
Ethyl Alcohol	Toxic to aquatic organisms. This is hazardous for the environment.	Persistence is unlikely based on information available.	Not Available	Log Pow: -0.32	Not Available	Not Available
Isobutyl Alcohol	LC50: 1120-1520 mg/L 96h. EC50= 1224.6 mg/L 15 min	Soluble in water Persistence is unlikely based on information available.	Not Available	Log Pow: 0.79	Not Available	Do not empty into drains.
Xylene	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	Persistence is unlikely	Not Available	Log Pow: 3.15	Not Available	None

Section XIII - Disposal Considerations (non-mandatory)

Recommendations for:

Disposal Container(s)	None
Disposal Method	Dispose of in accordance to local, state, and federal regulations
Sewage Disposal	Avoid dispersal of spilled materials and runoff and contact with soil, waterways, drains and sewers.

Section XIV - Transport Information (non-mandatory)

UN#	UN 1263
UN Proper Shipping Name	Paint Related Material
Transport Hazard Class	3
Packing Group Number (if applicable,	Y344
Environmental hazards (marine pollutant? International Maritime Dangerous Goods Code (IMDG))	Yes

Guidance on Bulk Transport	Passenger and Cargo Aircraft
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Section XV - Regulatory Information (non-mandatory)

It is the responsibility of each company to comply to proper regional regulations.

Section XVI - SDS History

<u>Line #</u>	<u>Date</u>	<u>Revision</u>	<u>Comments</u>
1	12/15/2017	A	None