



Safety Data Sheet

Section 1: Identification

Product Name:	Tetrahydrofurfuryl Alcohol (THFA)		
Synonyms:	Tetrahydro-2-furylmethanol; Tetrahydro- (8CI); (Tetrahydrofuran-2-yl)methanol; 2-(Hydroxymethyl) tetrahydrofuran		
CAS #:	97-99-4		
Chemical Formula:	C ₅ H ₁₀ O ₂		
Company:	AllChem Industries ICG, Inc. 6010 NW First Place Gainesville, FL 32607	Emergency Number:	CHEMTREC 800-424-9300
Recommended Use:	Solvent/Industrial uses.		
Restrictions on Use:	No data available.		

Section 2: Hazard Identification

GHS Label elements:

GHS Classification

Category

Acute toxicity, oral	4
Flammable liquid	4
Serious eye damage/irritation	2A
Specific target organ toxicity, single exposure; Respiratory tract irritation	3

Pictogram:



Signal Word: **Warning**

Code	Hazard Statement
H227	Combustible liquid
H302	Harmful if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Code	Precautionary Statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fumes/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/clothing and eye/face protection.
P301+ P312	IF SWALLOWED: Call A POISON CENTER/doctor, if you feel unwell.

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, if you feel unwell.
P330	Rinse mouth.
P337+ P313	If eye irritation persists: Get medical advice/attention.
P370+ P378	In case of fire: Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam to extinguish.
P403	Store in a well-ventilated place.
P403+ P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional regulations.

Other classifications:

NFPA Rating:

Health: 2
Fire: 2
Reactivity: 0

HMIS Rating:

Health: 2
Flammability: 2
Physical: 0

Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration	EC Number
Tetrahydrofurfuryl Alcohol	97-99-4	98 - 100 %	202-625-6
Pentane-1,2-diol	5343-92-0	0 - 2 %	226-285-3

Section 4: First Aid Measures

Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen provided a qualified individual is present. If not breathing, apply artificial respiration. Get immediate medical attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If victim is conscious and alert, rinse mouth with water and give small quantities to drink. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Skin Contact:	Flush skin with plenty of soap and water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse or discard if they cannot be thoroughly cleaned. Get medical attention.
Eve Contact:	Flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do so. Get medical attention.
Note to Physician:	Treat symptomatically and supportively. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5: Fire Fighting Measures

Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam. Do NOT use solid water stream as it may spread fire.
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Use water to cool exposed containers.
Containers may explode in the heat of a fire.
Move fire-exposed containers, if safe to do so.

Special Protective Equipment: Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.

Specific Hazards: Combustible liquid.
Fire residues and contaminated water must be disposed of in accordance with local regulations.
Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.
Vapors may form explosive mixture with air.

Section 6: Accidental Release Measures

Emergency Procedures: Wear personal protection equipment.
Avoid contact with skin, eyes and clothing.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Keep unnecessary personnel away and upwind.
Remove all sources of ignition.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.
Do not let product enter soil, ditches, sewers, waterways, or groundwater.

Methods of containment/cleanup: Absorb with inert materials and place into appropriate containers for disposal.
Notify appropriate authorities and dispose of in accordance with applicable requirements.

Section 7: Handling and Storage

Handling: Wear personal protection equipment.
Avoid contact with eyes, skin and clothing.
Avoid ingestion and inhalation.
Use only in well-ventilated area.
Wash thoroughly after handling.
Empty containers retain product residue (liquid and/or vapor), and can be dangerous.
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to sources of ignition.
Ground and bond containers when transferring material to avoid static discharges.
Use spark-proof tools and explosion-proof equipment.
Take precautionary measures against static discharge.

Storage: Store tightly closed container in a cool, dry, well-ventilated area away from direct sunlight.
Keep isolated from incompatible materials.
Keep away from heat, sparks, flame and other sources of ignition.

Section 8: Exposure Controls / Personal Protection

Exposure Limits:	Regulator:	Test:	Allowance:
	AIHA WEEL	TWA	0.5 ppm (8 hours)

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
An emergency eye wash/shower must be readily accessible to the work area.

Personal Protective Equipment:

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. In confined areas, use a self-contained breathing apparatus.

Skin Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, colorless to pale yellow
Odor:	Mild, characteristic
Odor Threshold:	No data available
pH:	No data available
Melting/Freezing Point:	<-80 °C
Boiling Point:	178 °C
Decomposition Temperature:	No data available
Flash Point:	75 °C
Auto-ignition Temperature:	282 °C
Flammability/Explosive Limits:	1.5 to 9.7 % (V)
Vapor Pressure:	0.107 kPa at 25 °C
Vapor Density (air=1):	3.5 at 20 °C
Relative Density (water=1):	1.05
Solubility (in water):	Soluble
Partition coefficient: n-Octanol/water:	Log Pow: -0.14
Evaporation Rate (Butyl Acetate=1)	0.04
Kinematic Viscosity	No data available
Molecular Weight:	102.13 g/mol

Section 10: Stability and Reactivity

Stability: Stable at room temperature and under normal conditions.

Hazardous Reactions: Thermally stable at typical use temperatures.
Polymerization will not occur.
Vapors may form explosive mixture with air.

Conditions to Avoid: Avoid heat, sparks, open flames and other sources of ignition.
Keep away from direct sunlight.
Avoid extremely high or low temperatures.

Incompatible Materials: Oxidizers and strong acids/bases.

Decomposition Products: Carbon oxides.

Section 11: Toxicological Information

Potential Health Effects:

Inhalation: May cause respiratory irritation.

Skin Contact: May cause mild skin irritation.

Eye Contact: Causes serious eye irritation.

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Ingestion: Harmful if swallowed.

Numerical Measures of Acute Toxicity:

	Route	Test	Subject	Value	Time
	Oral	LD 50	Rat	1,600 mg/kg	
	Dermal	LD 50	Rabbit	5 g/kg	

Additional Information:

RTEC #: LU2450000

Aspiration Toxicity: Not classified based on available information.

Carcinogenicity: This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.

Germ cell mutagenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

Sensitization: Not classified based on available information.

STOT - Repeated Exposure: Not classified based on available information.

STOT - Single Exposure: May cause respiratory irritation.

Section 12: Ecological Information

Ecotoxicity: No data available.

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Section 13: Disposal Considerations

Packaging: Empty containers may retain product residue, follow label warnings even after container is emptied.

Disposal: Dispose of according to Federal, State, and Local Regulations.

Section 14: Transportation Information

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

Regulated for transport ONLY in bulk containers, greater than 119 gallons. Per 49 CFR §173.150 – Exceptions for Class 3 Flammable and Combustible liquids.

UN #: NA 1993

Proper Shipping Name: Combustible liquid N.O.S. (Tetrahydrofurfuryl Alcohol)

Transport Hazard Class: 3

Packing Group: III

Labels & Placards: COMBUSTIBLE

Marine Pollutant: No

Section 15: Regulatory Information

US Federal - TSCA: This product is listed on the TSCA active inventory.

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California - Prop 65:

This product is not subject to the State of California's Proposition 65 regulations.

Section 16: Other Information**Revision Date:**

Wednesday, February 26, 2020

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AllChem be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AllChem has been advised of the possibility of such damages.