



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **tert-Butyl alcohol**  
PRODUCT NUMBER: 1430  
CAS NUMBER: 75-65-0  
SYNONYMS: Trimethylcarbinol, 2-methyl-2 propanol, tert-butanol, 2-Methylpropan-2-ol

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

### Precautionary Phrases

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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.

### HMIS CLASSIFICATION:

Health: 2      Chronic: \*      Fire: 3      Reactivity Hazard: 0

### NFPA RATING:

Health: 2      Flammability: 3      Reactivity Hazard: 0

**EYE CONTACT:** Causes serious eye irritation.

**SKIN CONTACT:** May cause skin irritation.

**INHALATION:** May cause respiratory tract irritation.

**INGESTION:** May be harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: (CH<sub>3</sub>)<sub>3</sub>COH

Molecular Weight: 74.12

CHEMICAL NAME	CAS#	%
tert-Butyl Alcohol	75-65-0	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** 11°C

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Upper-8% Lower-2.4%

**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
tert-Butyl	100 ppm	TWA	ACGIH
	100 ppm 300 mg/m <sup>3</sup>	TWA	NIOSH
	150 ppm 450 mg/m <sup>3</sup>	ST	NIOSH
	100 ppm 300 mg/m <sup>3</sup>	TWA	OSHA

TWA: Time Weighted Average over 8 hours of work.

STEL: Short Term Exposure Limit during x minutes.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Clear liquid

**ODOR:** Strong / camphor-like

**MOLECULAR WEIGHT:** 74.13

**BOILING POINT:** 83° C

**MELTING POINT:** 24-25°C

**SPECIFIC GRAVITY:** 0.775

**VAPOR DENSITY:** 2.56

**SOLUBILITY IN WATER:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Heat, flame, and sparks. Extremes of temperature and direct sunlight.

**INCOMPATIBILITY:** Strong oxidizing agents, copper, alkali metals, and aluminum.

**DECOMPOSITION PRODUCTS:** Carbon oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 2,743 mg/kg. LD50 Dermal – rabbit- >2,000 mg/kg. LD50 Oral – rat - >3100 or 2733.

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** Not available

**RTECS:** EO1925000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

**TOXICITY TO FISH:** Flow-through test LC50 - Pimephales promelas (fathead minnow) - > 961 mg/l - 96 h

**TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:** Static test EC50 - Daphnia magna (Water flea) - 933 mg/l - 48 h

**TOXICITY TO ALGAE:** IC50 - Desmodesmus subspicatus (green algae) - > 1,000 mg/l - 72

**TOXICITY TO BATERIA:** EC10 - Pseudomonas putida - 6,900 mg/l - 16 h

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN1120

Butanols

Class 3

PG II

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**SARA 302/304:** Not listed

**SARA 311/312:** Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA (TITLE 313):** tert-Butyl alcohol

**MASSACHUSETTS RIGHT TO KNOW:** tert-Butyl alcohol

**PENNSYLVANIA RIGHT TO KNOW:** tert-Butyl alcohol

**NEW JERSEY RIGHT TO KNOW:** tert-Butyl alcohol

**CALIFORNIA PROP. 65:** Not Listed

## SECTION 16 OTHER INFORMATION

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE REVISED:** 03/22

**SDS DEPT.**