

**T.M. THAKORE PHARMACEUTICAL LABORATORIES****(Ethanol, 2 Propanol & 1 Propanol Solution) Bacttol™ 25**

Date of last issue: 01/06/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : (Ethanol, 2 Propanol & 1 Propanol Solution) Bacttol™ 25

Manufacturer detailsManufacturer : **T.M.Thakore Pharmaceutical Laboratories**
15-A, Premson's Industrial Estate, Caves Road,
Jogeshwari (East), Mumbai-400060.

Emergency telephone number : Tel.:09702369864

Recommended use : For Instant disinfection (25 Sec)

2. HAZARDS IDENTIFICATION GHS Classification**Flammable liquids** : Category 3

Serious eye damage/eye irritation : Category 1

Specific target organ toxicity -
single exposure : Category 3 (Central nervous system)**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapor.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Precautionary statements : P102 Keep out of reach of children.

Prevention:P210 Keep away from heat, hot surfaces, sparks, open flames and other
ignition sources. No smoking.

P261 Avoid breathing vapor.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water

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for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Concentration (% w/w)
Ethanol I.P.	64-17-5	10 gms
2- Propanol I.P.	67-63-0	9 gms
1-Propanol	71-23-8	6 gms

4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible).
- If inhaled : Move to fresh air.
- In case of skin contact : Wash off with plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : none
- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : No hazardous combustion products are known
- Special protective equipment for firefighters : Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.

Remove all sources of ignition.

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- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take measures to prevent the buildup of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on safe handling : For personal protection see section 8.
- Conditions for safe storage : Store at room temperature in the original container. Keep tightly closed.
- Materials to avoid : Keep away from food and drink.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol I.P.	64-17-5	STEL	1.000 ppm	ACGIH
2-Propanol I.P.	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
1 – Propanol	71-23-8	TWA	100 ppm	ACGIH

Personal protective equipment

- Eye protection : Tightly fitting safety goggles
- Hygiene measures : Ensure adequate ventilation, especially in confined areas.
Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday. Do not get in eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : Clear Coloured Solution.
- pH [at 25°C] : 5.00 TO 6.00

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10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Heat Strong sunlight for prolonged periods.
Incompatible materials	:	None.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Components:

Ethanol I.P. (CAS: 64-17-5):

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg

Acute inhalation toxicity : LC50 (Rat): 51 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 15.800 mg/kg

2-Propanol (CAS: 67-63-0):

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

1-Propananol (CAS: 71-23-8):

Acute oral toxicity : LD50 Oral (Rat): 8.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 33,8 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 4.032 mg/kg
Method: OECD Test Guideline 402

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Exposure time: 8 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation

Product:

Result: No skin irritation

Components:

Ethanol (CAS: 64-17-5):

Species: human skin Result:

Mild skin irritation

Remarks: Based on available data, the classification criteria are not met.

2-Propanol (CAS: 67-63-0):

Species: Rabbit

Result: No skin irritation

1-Propanol (CAS: 71-23-8):

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Result: Risk of serious damage to eyes.

Components:

Propan-1-ol (CAS: 71-23-8):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irreversible effects on the eye

Propan-2-ol (CAS: 67-63-0):

Species: Rabbit

Result: Eye irritation

Respiratory or skin sensitization

Product:

Result: Does not cause skin sensitization.

Components:

Propan-1-ol (CAS: 71-23-8):

Test Type: Maximization Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals.

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Propan-2-ol (CAS: 67-63-0):

Test Type: Buehler Test

Species: Guinea pig

Result: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Components:

Propan-1-ol (CAS: 71-23-8):

Genotoxicity in vitro : Test Type: in vitro assay
Result: negative

Propan-2-ol (CAS: 67-63-0):

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation Result:
negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

Product:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

12. ECOLOGICAL

INFORMATION Ecotoxicity

Components:

1-Propanol (CAS: 71-23-8):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.555 mg/l
Exposure time: 96 h
Test Type: flow-through test Method:
OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.644 mg/l Exposure time: 48 h Method: DIN 38412
Toxicity to algae	:	NOEC (Chlorella pyrenoidosa (algae)): 1.150 mg/l Exposure time: 48 h Test Type: Growth inhibition EC50 (Pseudokirchneriella subcapitata (green algae)): 9.170 mg/l Exposure time: 72 h Test Type: Growth inhibition
Toxicity to microorganisms	:	IC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

2-Propanol (CAS: 67-63-0):

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 72 h

Ethanol (CAS: 64-17-5):

Toxicity to fish	:	LC50 (Fish): 11.200 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 5.012 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 275 mg/l Exposure time: 96 h

Persistence and degradability

Product:

Biodegradability	:	Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.
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Bioaccumulative potential

No data available

Mobility in soil

No data available **other**

adverse effects No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of as hazardous waste in compliance with local and national regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	:	Empty remaining contents. Store containers and offer for recycling of material when in accordance with the local regulations.

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14. TRANSPORT INFORMATION

Labels Required

Flammable liquid

Category 3 is for ethyl Alcohol because the flash point is below 100°F .

Generally, a flammable liquid is a combustible liquid that can easily catch fire. However, it is not the liquid itself that burns, but the vapor cloud above the liquid that will burn if the vapor's concentration in air is between the lower flammable limit (LFL) and upper flammable limit (UFL) of the liquid.

Class 3 Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc., but not including substances otherwise classified on account of their dangerous characteristics) which give off a flammable vapor at temperatures of not more than 60°C, closed-cup test, or not more than 65.6°C, open-cup test, normally referred to as the flash point. This class also includes:

Liquids offered for transport at temperatures at or above their flash point; and

1. Substances that are transported or offered for transport at elevated temperatures in a liquid state and which give off a flammable vapor at a temperature at or below the maximum transport temperature.



15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

ETHANOL (64-17-5) IS FOUND IN REGULATORY LISTS

2- PROPANOL (CAS: 67-63-0) IS FOUND IN REGULATORY LISTS

1-PROPANOL (CAS: 71-23-8) IS FOUND IN REGULATORY LISTS

16. OTHER INFORMATION

(Ethanol, 2 Propanol & 1 Propanol Solution) Bacttol™ 25 is a trademark of Raman & Weil Pvt. Ltd.

Manufactured By: - T.M. Thakore Pharmaceutical Laboratories

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For complaints or Suggestions: RW Customer care cell 022 – 22049527 / 022 – 22856397.