

**MATERIAL SAFETY DATA SHEET**

Reviewed & Approved by,
Dr. P. Arjunan, Vice President – R&D

1. IDENTIFICATION OF THE PRODUCT AND NAME OF THE COMPANY/UNDERTAKING

TRADE NAME : **Clenza TS Tap and Shower Cleaner**

MANUFACTURER'S NAME : MYK LATICRETE INDIA PVT. LTD
Plot no. 30/C (Sy. No. 83/1), Orbit Building, 17th Floor, Tower 1,
Knowledge City, TSIC, Raidurg, Ranga Reddy Dist., Hyderabad -
500 081, Telangana, India. Tel: +91-40-6817 3100

Recommended use of the chemical

Recommended use : a specialty cleaner used to remove hard water stains, limescale stains and stubborn soap sums from CP fittings and sanitary ware

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.

Danger, Eye Dam. 1, Causes serious eye damage.

2.2 Label elements**Labelling according Regulation (EC) No 1272/2008**

Pictogram



Signal word

Danger

Hazard statement(s)

H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation
H350	May cause cancer (Ingestion)
H361	Suspected of damaging the unborn child (Ingestion)
H370	Causes damage to organs (central nervous system, optic nerve) (oral, Dermal)

**Precautionary statement(s)**

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed
P280	Wear protective gloves, eye and face protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P331+P315	If SWALLOWED: Do NOT induce vomiting. Get immediate medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P305+351+338+313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing until no signs of contamination remain, Get medical advice/attention
P501	Dispose of contents/container to an approved waste disposal plant in accordance with local, regional, national and international regulations.

Supplemental Hazard Statements

P260	Do not breathe vapour/spray
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards**NA****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Ingredients

Chemical Name	CAS-No.	Concentration (%)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Octyl phenol Ethoxylate	9036-19-5	2-12	Acute toxicity - Category 4 - Oral

Ingredients determined to be non-hazardous: q.s.



4. FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

If swallowed: Do not induce vomiting. If the material is swallowed, get medical attention or advice.

In case of skin contact: If irritation is experienced, flush with water. If irritation persists, get medical attention.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media	Dry powder, Dry sand, Alcohol-resistant foam, Dry chemical Carbon dioxide (CO ₂)
Unsuitable extinguishing media	Do NOT use High Volume water jet.

5.2 Special hazards arising from the substance or mixture:

- Do not use a solid water stream as it may scatter and spread fire.
- Flash back possible over considerable distance.
- Vapors may form explosive mixtures with air.
- Exposure to combustion products may be a hazard to health.
- Hazardous combustion products Carbon oxides Combustible.

5.4 Specific extinguishing methods:

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Use water spray to cool unopened containers.
- Remove undamaged containers from fire area if it is safe to do so.
- Evacuate area.

5.5 Fire Fighting Equipment/Instructions:

In the event of fire, Use personal protective equipment, protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and wear self-contained breathing apparatus.

5.6 NFPA Rating: Health:2 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

5.7 Further information:

- Use water spray to cool unopened containers.



6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures:

- Use personal protective 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.
- Keep unnecessary personnel away.
- Eliminate all sources of ignition or flammables that may encounter a spill of this material.

6.2 Environmental precautions:

- Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment:

Contain spillage, and then collect or absorb spilled liquid in suitable non-flammable/ non-combustible inert material such as Sand, clay, vermiculite, or diatomaceous earth and place in container for disposal according to local / national regulations.

6.4 Methods and materials for cleaning up:

Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

6.5 Further Information:

- Dispose of all wastes in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosion proof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

Hygiene measures

: Wash exposed skin thoroughly after handling.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion - proof electrical/ ventilating/ lighting equipment.
Storage conditions	: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep in fireproof place.
Incompatible products	: Strong bases.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Heat-ignition	: KEEP SUBSTANCE AWAY FROM heat and ignition sources.
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM oxidizing agents. strong acids. water/moisture.
Storage area	: Keep out of direct sunlight. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal requirements.
Conditions for safe storage	: Keep in properly labeled containers. Keep tightly closed.
Local/Total ventilation	: Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.
Advice on safe handling	: Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Materials to avoid	: Do not store with the product types like, Strong oxidizing agents, Organic peroxides, Flammable solids, Pyrophoric liquids, Pyrophoric solids, Self-heating substances and mixtures, Substances and mixtures which in contact with water emit flammable gases, Explosives and Gases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Components with workplace control parameters

8.2 Exposure controls

There is no exposure data pertaining to the Product. This section reflects exposure data Pertaining to individual ingredients.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Propan-2-ol	STEL: 400 ppm	TWA: 400 ppm; 980 mg/m ³	TWA: 400 ppm 980 mg/m ³

8.3 Exposure Controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

Personal protective equipment : Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type A.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: butyl rubber. viton.
GIVE GOOD RESISTANCE: neoprene. tetrafluoroethylene.
GIVE LESS RESISTANCE: nitrile rubber. polyethylene.
GIVE POOR RESISTANCE: natural rubber. PVA. PVC.

Eye/face protection : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection : Protective clothing.

Respiratory protection : Wear gas mask with filter type A if conc. in air > exposure limit.

Other information : Do not eat, drink, or smoke during use.

8.4 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Material Family	: Organic Material
Color	: Clear, Colorless to pale yellow
Odor	: Characteristic pleasant odor
Odor Threshold	: No data available
pH	: 3-4
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Specific Gravity (20 °C)	: 1.100
Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	: The mixture is not classified as self-reactive.
Explosive properties	: Not explosive
Oxidizing properties	: No data available

10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: Heat, flames, and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition Products	: No hazardous decomposition products are known.



11. TOXICOLOGICAL INFORMATION

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes. May cause redness, itching, and pain.
Skin Contact	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Toxicity Information
Propan-2-ol	Acute toxicity
	LD50 Oral - Rat - 5.840 mg/kg (OECD Test Guideline 401)
	LC50 Inhalation - Rat - male and female - 4 h - 37,5 mg/l (OECD Test Guideline 403)
	LD50 Dermal - Rabbit - 12.800 mg/kg
	Skin corrosion/irritation
	Skin - Rabbit
	Result: No skin irritation (OECD Test Guideline 404)
	Serious eye damage/eye irritation
	Eyes - Rabbit
	Result: Eye irritation (OECD Test Guideline 405)
	Respiratory or skin sensitisation
	Buehler Test - Guinea pig
	Result: negative (OECD Test Guideline 406)
	Germ cell mutagenicity
	No data available
Ames test	
Salmonella typhimurium	
Result: negative	
In vitro mammalian cell gene mutation test	
Result: negative OECD Test Guideline 474	
Mouse - male and female - Bone marrow	



Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Inhalation, Oral - May cause drowsiness or dizziness.

Acute inhalation toxicity - Central nervous system

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects.,

Aspiration may lead to: Lung oedema, Pneumonia

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	Flow-through test LC50 - Pimephales promelas (fathead minnow) 15.300 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Ceriodaphnia dubia (water flea): 5.012 mg/l -48 h Remarks: (ECHA)
Toxicity to algae	Static test :ErC50 - Chlorella vulgaris (Fresh water algae) - 275 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Static test IC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

**12.2 Persistence and degradability**

Biodegradability aerobic - Exposure time 15 d
Result: ca.95 % - Readily biodegradable.
(OECD Test Guideline 301E)

Biochemical Oxygen Demand (BOD) 930 - 1.670 mg/g

Remarks: (Lit.)

Theoretical oxygen Demand 2.100 mg/g

Remarks: (Lit.)

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information No data available

13. DISPOSAL INFORMATION

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

14.1 International Regulation**UNRTDG**

UN number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.
(Propan-2-ol)
Class : 3
Packing group : III
Labels : 3

14.1 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.2 Packaging group

ADR/RID: II IMDG: II IATA: II

14.3 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA: No

14.4 Special precautions for user

No data available

**15. REGULATORY INFORMATION**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

EPCRA - Emergency Planning and Community Right-to-Know**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard; Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Propan-2-ol	67-63-0	5-10 %
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US State Regulations**Pennsylvania Right To Know**

Chemical Name	CAS No	Proportion
Propan-2-ol	67-63-0	5-10 %
Water	7732-18-5	q.s.

New Jersey Right To Know

Chemical Name	CAS No	Proportion
Propan-2-ol	67-63-0	75 %
Water	7732-18-5	q.s.

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

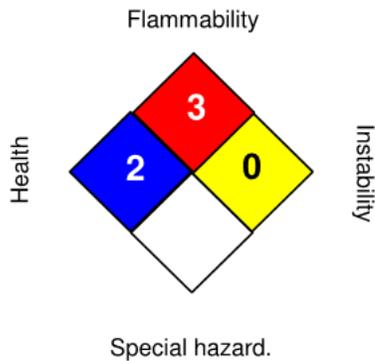
15.2 Chemical safety assessment

For this product, a chemical safety assessment was not carried out

16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OCED	: Organisation for Economic Co-operation and Development
AICS	: Australian Inventory of Chemical Substances (Australia)
DSL	: Domestic Substances List (Canada)
IECSC	: The Inventory of Existing Chemical Substance in China (China)
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals (European Union)
ENCS	: Existing and New Chemical Substances (Japan)
ISHL	: Industrial Safety and Health Law (Japan)
KECI	: Korea Existing Chemicals Inventory (Korea)
NZIoC	: New Zealand Inventory of Chemicals (New Zealand)
PICCS	: Philippine Inventory of Chemicals and Chemical Substances (Philippines)
NECSI	: National Existing Chemical Substance Inventory (Taiwan)
TSCA	: Toxic Substances Control Act (USA)

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