

Preparation Date 15-Dec-2020

Revision Date 15-Dec-2020

Revision Number 01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description 1% Denatonium Benzoate solution (bitteR)

Other means of Identification

UN-No UN1950

Recommended use of the chemical and restriction on use

Recommended use Rat Repellent

Uses advised against Activities contrary to label recommendations

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL Limited
CTS No. 610 B/2, Bandra Village,
Off Western Express
Highway, Behind Teachers Colony,
Bandra East, Mumbai,
Maharashtra 400051

E-mail address Bitter-rat@upl-ltd.com

Emergency Telephone Number

Company Phone Number +91-(022)-71528000
Emergency telephone number +91-(022) -71528000 (From 9:00 A.M. to 8:00 P.M.)

2. Hazard Identification

Classification

Flammable aerosols Category 1

Gases under pressure (Liquefied gas), H280

Label elements



Signal word

Danger



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Revision Date 15-Dec-2020

Revision Number 01

Hazard Statements

H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.

Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 Eliminate all ignition sources if safe to do so.
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Other Information

No other hazards known.

3. Composition/information on Ingredients

Chemical name	CAS-No	Conc %
Denatonium Benzoate	3734-33-6	1
Dimethyl ether	115-10-6	30 - 45

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

First-aid measures

Eye contact	Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
Skin contact	Remove contaminated clothing and shoes immediately, then wash with plenty of water. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned. If skin irritation or rash occurs, get medical attention.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting unless told by physician. If vomiting occurs ensure patient can breathe. Get medical attention, if you feel unwell.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. Get medical attention, if you feel unwell.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects The most important known symptoms and effects are described in the labelling (See section 2) and/or in section 11.

Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically and supportively.



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Revision Number 01

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture

Special Hazard Flammable or explosive mixtures with air maybe formed. Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Hazardous combustion products Carbon oxide

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Use standard firefighting procedures and consider the hazards of involved material.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid breathing mist/fume/gas /vapors. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Keep unnecessary people away. Isolate area. Keep out of low areas.

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up Pick and arrange disposal without creating dust. Sweep up and shovel into suitable container for disposal. Follow all label instructions regarding spill clean-up and residual disposal methods.

Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

7. Handling and Storage

Precautions for safe handling

Handling Wear Suitable protective equipment. Avoid contact with skin and eyes. Avoid breathing vapour or mist. Ensure adequate ventilation. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling. Avoid release to environment. Empty containers may contain hazardous residues. Do not reuse empty container.

Conditions for safe storage, including any incompatibilities

Storage Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not store container below 32 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Incompatible materials Strong oxidizing agents.



8. Exposure Controls/Personal Protection

Exposure Guideline	Apply technical measures to comply with the occupational exposure limit.
Engineering controls	Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<u>Personal protective equipment</u>	
Eye/Face Protection	Avoid contact with eyes. Where there is potential for eye contact have eye flushing equipment available. Tightly fitting safety goggles. Face-shield.
Skin/Hand protection	Wear protective gloves/clothing. Long-sleeved clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.
Environmental exposure controls	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Local authorities should be advised if significant spillage cannot be contained.

General hygiene considerations

Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Milky white suspension liquid uniformly distributed in aqueous suspension base
Physical state	Liquid. Form: Aerosol
Odour	No odour
Color	White milky
Odor threshold	No information available

<u>Property</u>	<u>VALUES</u>	<u>Remarks / Method</u>
pH	7 - 8	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	-2 °F (-18.9 °C) Tag Closed Cup	
Flammability (solid, gas)	No information available	
Upper/lower flammability or	No information available	
Explosive limit	No information available	
Density	No information available	
Vapor density	No information available	
Vapor pressure	No information available	
Water solubility	No information available	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Voc Content	No information available	
Dynamic Viscosity	No information available	
Oxidizing properties	No information available	
Explosive properties	No information available	
Surface Tension	No information available	

10. Stability and Reactivity



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Revision Date 15-Dec-2020

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Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reaction

No information available.

Conditions to avoid

Keep away from open flames, hot surfaces and source of ignition.

Incompatible Materials

Strong oxidizing agents

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological Information

Information on Toxicological Effects

Local effect

Inhalation	No additional information available
Eye contact	No additional information available
Skin contact	No additional information available
Ingestion	No additional information available

Chronic toxicity

Skin Corrosion/Irritation	No information available
Eye damage/irritation	No information available
Sensitization	No information available
Mutagenic effects	No information available
Carcinogenic effects	No information available
Reproductive effects	No information available
STOT - Single Exposure	No information available
STOT - repeated exposure	No information available
Aspiration hazard	No information available

12. Ecological Information

Ecotoxicity

No information available



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Persistence and Degradability

No information available

Bio accumulative Potential

No information available.

Other Adverse Effects

No information available.

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method

Dispose of in accordance with applicable Federal, State, local laws and regulations.

Contaminated packaging

Empty container should be taken for local recycling, recovery or waste disposal. Do not re-use container. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

IMDG/IMO

UN number: UN1950

UN proper shipping name: AEROSOLS

Class 2

Packing group: Not applicable.

Marine pollutant: No

Environmental hazards

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA/ICAO

UN number UN1950

UN proper shipping name: Aerosols

Class 2.1

Packing group Not applicable.

Environmental hazards No.



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Revision Date 15-Dec-2020

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15. Regulatory Information

International Inventories

USINV	-
TSCA	-
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
China	-
IENCS	-
AICS	-
KECL	-

- : Not listed/Determined

Legend

USINV - Total TSCA/FIFRA Inventory

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

16. Other Information

Preparation Date	15-Dec-2020
Revision Date	15-Dec-2020
Revision Summary	-

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End of Safety Data Sheet