# Material Safety Data Sheet

## Product Name: OTGUARD

**1.Chemical Product and Supplier Identification**

Chemical Name: Formulation (Disinfectant)
Synonyms: None
Manufacturer: Medizysis India pvt ltd

**2. Composition/Information on Ingredients**

| Components | CAS No. | Percent |
|---|---|---|
| n-Alkyl Dimethyl Benzyl Ammonium Chloride | 68391-01-5 | 2.3-2.5 |
| n-Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride | 68956-79-6 | 2.3 – 2.5 |
| Poly (hexamethylene biguanide) hydrochloride | 32289-58-0 | 2.0 – 2.3 |
| Non Ionic Surfactant | 1338-43-8 | 8-10 |
| Water | 7732-18-5 | Balance |

**3. Hazards Identification**

Emergency overview:
Toxicity effects principally related to its irritating properties.
Does not present any significant hazard for the environment.
Supports combustion of other substances (oxidizing product)
Potential health effects:
General: Irritating to mucous membrane, eyes and skin.
Inhalation:
Slight nose and throat irritation
At high concentrations, cough
In case of repeated or prolonged exposure: risk of sore throat, nose bleeds,chronic bronchitis.
Eye contact:
Severe eye irritation, watering and redness, can cause burns to the eye.
Risk of serious or permanent eye lesions
Slight irritation.
In case of repeated contact: risk of dermatitis.
Ingestion:
Severe irritation of the mouth, throat, esophagus and stomach.
Bloating of stomach, belching.
Nausea, vomiting and diarrhea.

**4.First-Aid Measures**

General Recommendations:
Do not dye soiled clothing near an open flame or incandescent heat source.
Inhalation:
Remove the subject from dusty environment.
Consult with a physician in case of respiratory symptoms.
Eye contact:
Flush eyes with running water for 15 minutes, while keeping the eyelids wide open.
Consult with an ophthalmologist in all cases.
Skin contact:
Remove contaminated shoes, socks and clothing; wash the affected skin with running water.
Clean clothing.
Consult a physician in case of persistent pain or redness.
Ingestion:
Consult with a physician in all cases
If the subject is completely conscious, rinse mouth and administer fresh water. Don't induce vomiting.
If the subject is unconscious, loosen collar and tight clothing, lay the victim on his/her left side, give nothing by mouth. Keep warm with blanket.
Don't induce vomiting.

**5.Fire-Fighting Measures**

Flash Point: Not applicable
Flammability: Non-flammable
Auto-ignition temperature: Not applicable
Danger of explosion: Non-explosive
Common extinguishing methods: Water
Specific hazards:
Oxidizing substance
Oxygen released on exothermic decomposition may support combustion.
Pressure burst may occur due to decomposition in confined spaces or containers.
Fire fighting instructions:
Evacuate all nonessential personnel.
Personnel should wear normal protective equipment(full bunker gear) and positive pressure self-contained breathing apparatus.
Intervention only by capable personnel who are trained and aware of the hazards of the product.
If safe to do so, remove unaffected product to a safe area.

**6.Accidental Release Measures**

Precautions:
Observe the protection measures given in sections 5 and 8.
Avoid materials and products which are incompatible with the product(see section 10)
Avoid direct contact of the product with water.
Cleanup methods:
Collect the product with suitable means, shovel or sweep, avoiding dust formation
All receiving equipment should be clean, dry, vented, labeled and made of material that is compatible with the product.
Don't return spilled or contaminated material to inventory.
Clean the area with large quantities of water.
For disposal methods, refer to section 13.

**7.Handing and Storage**

Handing:
Clean and dry process piping and equipment before using this product.
Never return unused product to original storage container.
Keep away from incompatible products.
Containers and equipment used to handle the product should be used exclusively for that product.
Avoid any contact with water or humidity.
For more information, consult the supplier.
Storage:
In a dry area.
Protect from direct sunlight.
Keep away from heat sources
Keep away from reactive products(see section 10).
Store in vented containers.
Store at temperatures less than 40℃(104℉)

**8.Exposure Controls/Personal Production**

Engineering controls:
Provide ventilation in work areas when necessary to minimize dust and irritation and to comply with the following applicable limits:
Eye/face protection: Dust proof chemical goggles.
Hand protection: Protective gloves-chemical resistant.
Recommended material: PVC, neoprene or rubber.

Skin protection: For brief contact, few precautions other than clean body- covering clothing should be needed. When prolonged or frequently repeated contact could occur, use protective, full body clothing, such as PVC or rubber, impervious to this material.
Respiratory protection: For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres or when exposures exceed limit values, use a NIOSH approved dust respirator.
Other precautions:
Safety shower and eyewash stations.
Consult a health and safety expert for the selection of personal protective equipment suitable for the working conditions.

**9. Physical and Chemical Properties**

Appearance: Clear to pale yellow colorless liquid
Odor: Characteristic Characteristic Fruity Odor
Bulk Density: 1.00-1.035 g/cm3
Solubility: Fully soluble in water
PH, 3% solution: 5.5 to 7.5
Decomposition Temperature: Not established

**10. Stability and Reactivity**

Stability: Stable, under certain conditions(see below).
Conditions to avoid: ·Heat/Sources of heat.
Materials to avoid:
Oxidising agents
Acids.
Bases.
Salts of heavy metals.
Reducing agents
Organic materials.
Flammable substances.
Other information: Decomposition releases steam/heat.

**11. Toxicological oxicological Information**

Acute toxicity:
Oral route –LD50, rat(combined sexes),1034 mg/kg.
Dermal route-LDLo, rabbit, >2000mg/kg.
Inhalation,LC0, 1 hour, rat, >4580mg/m3.
Irritation:
Eyes, severe damage, rabbit.
Skin, slightly irritating, rabbit.

Sensitization:
No sensitization was noted when administered as a 75% w/v mixture during induction and as a 25% w/v mixture at challenge.
Comments: Toxic effect linked with irritant properties.

**12. Ecological Information**

Acute ecotoxicity:
Fish, pimephales promelas, LC50, 70.7mg/L
Fish, Pimephales promelas, NOEC, 96 hours, 1mg/L.
Crustaceans,Daphnia pulex, EC50, 4.9mg/L.
Mobility
Air: Not applicable.
Water: Considerable solubility and mobility.
Soil/sediments, percolation: Non-significant adsorption.
Abiotic degradation
Air: Not applicable
Water: Significant hydrolysis.
Degradation's products: sodium carbonate, carbon dioxide, bicarbonate, carbonate, hydrogen peroxide.
Soil: Hydrolysis.
Potential for bioaccumulation: Non-bioaccumuable.
Comments:
Toxic for aquatic organisms. Nevertheless, hazard for the aquatic environment is limited due to produce properties.
Not bio accumuable
Abiotic degradation.
Low toxicity of degradation products.

**13. Disposal Considerations**

Dispose of in an approved waste facility operated by an authorized contractor in compliance with federal, state and local regulations.
Packing treatment:
The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

**14. Transport Information**

UN Number: N/A
Hazard Class: None
Packing Group: N/A

**15. Regulatory Information**

TSCA Inventory List: Yes

CERCLA Hazardous Substance (40CFR Part 302)

Listed substance: No

Unlisted substance: Yes

Reportable Quantity(RQ): 100 pounds

Characteristic(s): Ignitability

RCRA Waste Number: D001

SARA, Title III, Section 302/303(40 CFR Part 355-Emergency Planning and Notification) Extremely hazardouse substance: No SARA, Title III,Section 311/312

(40 CFR Part 370-Hazardous Chemical Reporting: Community Right-To-Know)

Hazard category: Immediate health hazard

Fire hazard

Threshold planning quantity: 10,000 pounds

**16. Other Information**

HMIS Rating:
Health-2 Flammability-0 Reactivity-1 PPE-Required
HMIS is a registered trademark of the National Paint and Coating Association.
NFPA Rating:
Health-2 Flammability-0 Reactivity-1
NFPA is a registered trademark of the National Fire Protection Association.
Reason for issue: Biannual Review.