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VONGUARD CLEANTEK

MATERIAL SAFETY DATA SHEET (MSDS)

Issue Date: June 2026

SECTION 1: Identification

- Product Identifier: Vonguard Cleantek VC-1 (Multi-Surface Concentrated Masterbatch Powder)
- Formulation Reference: VC-MSC
- Recommended Use: Upstream B2B raw material base engine. A dry concentrate core designed for uniform dilution by commercial facility managers and contract blenders to create liquid multi-surface cleaners (1 kg masterbatch powder = 50 liters of ready-to-use liquid concentrate).
- Downstream Dilution Ratio: 100 ml of the resulting liquid concentrate per 5 liters of water for standard consumer mopping applications.
- Manufacturer Details: Vonguard Cleantek - Reg. Office - 5-5-212/5/5A, Patel Nagar, Nampally Road, Hyderabad - 500001.
- Emergency Contact Number: +91 92908 17668

SECTION 2: HAZARDS IDENTIFICATION

- Classification: Non-hazardous in diluted use solution. Dry powder concentrate is a mild irritant.
- Signal Word: WARNING (For Dry Concentrate Only).
- Hazard Statements:
  - H315: Causes mild skin irritation (prolonged contact with dry powder).
  - H319: Causes serious eye irritation (if dry powder/dust enters eyes).
  - H335: May cause respiratory irritation (if dust is inhaled during manufacturing).
- Precautionary Statements: Wear eye protection and a dust mask when handling bulk dry powder. Keep out of reach of children.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

This formulation is a proprietary dry masterbatch chemical compound matrix. Per B2B trade secret standards, we withhold exact percentages and present them below as optimized composition ranges.

- Sodium Lauryl Sulfate (Anionic Surfactant): 35% - 45%
- Sodium Sulphate: 25%-35%
- Sodium Citrate (Water Softener / Chelator): 10% - 15%
- Magnesium Sulphate: 3% - 7%
- Sodium Carbonate: 1% - 5%
- Polyethylene Glycol (PEG 6000 - Levelling Agent): 1% - 5%
- Fragrance Profile: 1% - 5%
- Formaldehyde Solution: 0.1% - 1%
- Water Soluble Dye: 0.1% - 0.5%

SECTION 4: First-Aid Measures

- Inhalation: Move the operator to fresh air immediately. If breathing distress or coughing occurs, seek medical consultation.
- Skin Contact: Wash immediately with running tap water. Remove dust-soiled garments. If localized redness or a rash develops, consult a physician.
- Eye Contact: Flush eyes open instantly with clean water for a minimum of 15 minutes. Safely remove contact lenses if applicable. Seek immediate emergency ophthalmic care.
- Ingestion: Clean mouth out thoroughly with water. Do not induce vomiting. Administer 1–2 glasses of water or milk to dilute the stomach contents. Contact a poison control center or physician immediately.

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SECTION 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Use water spray, carbon dioxide (CO_2), dry chemical powder, or appropriate alcohol-resistant foam lines.
- Specific Chemical Hazards: The powder matrix is inherently non-flammable. Under severe thermal destruction/fire scenarios, it can split to discharge irritating oxides of sulfur (SO_x) and carbon oxides.
- Special Firefighter Protective Gear: Use standard full-body structural turnout clothing alongside positive-pressure self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Safety Precautions: Put on protective nitrile work gloves, sealed chemical safety goggles, and an anti-dust mask (N95 grade) to shield from airborne dust particles.
- Environmental Protections: Block large-scale raw powder quantities from entering municipal open waterways, rainwater storm basins, or municipal drainage lines.
- Remediation Method: Gently sweep up or vacuum the dry material into marked, secure recovery bins. Avoid spraying water over bulk dry powder spills to prevent instantaneous, heavy foaming actions.

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SECTION 7: Handling and Storage

- Handling Precautions: Process in modern, ventilated areas. Avoid manual dumping techniques that create thick dust clouds. Avoid direct eye exposure and prolonged skin contact when handling raw ingredients.
- Storage Requirements: Keep stored inside heavy-duty, hermetically sealed moisture-barrier bags. Keep off cold floors and store them within dry warehouse racks protected from high relative humidity and acidic compounds. Storage temperature parameters: 5°C to 40°C

SECTION 8: Exposure Controls / Personal Protection

Exposure Limit Benchmarks

- Formaldehyde (Preservative Component): OSHA PEL: 0.75 ppm (TWA); ACGIH TLV: 0.3 ppm (ceiling).
- Nuisance Dust Particles: OSHA PEL: 15 mg/m^3 (total airborne concentration).

Engineering Infrastructure Controls

- Utilize local mechanical extraction hoods directly over processing dump stations to maintain industrial dust limits below action thresholds.

Personal Protective Equipment (PPE)

- Eye Protection: Sealed chemical safety goggles or clear side-shield goggles.
- Skin Protection: Industrial nitrile, PVC, or neoprene gloves; long-sleeved factory uniform coats.
- Respiratory Protection: N95 particulate dust masks during mass loading or dry ribbon blending cycles.

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SECTION 9: Physical and Chemical Properties

All properties listed below are derived and validated directly from official NABL laboratory testing codes. MCAL/2026/1277A and MCAL/2026/1277B:

- **Physical Appearance: Free-flowing, granular dry powder matrix**
- **Odor: Distinct clean/fresh fragrance profile**
- **Visual Clarity / Appearance (0.5% Aqueous Dilution): Clear homogeneous liquid (Verified via Visual Inspection, no sedimentation)**
- **pH (0.5% Aqueous Solution @ 25°C): 7.1 (Verified via pH Meter; Perfect Neutral range)**
- **Active Matter Index: 48.5% w/w (Verified via Two-Phase Titration surfactant engine)**
- **Surface Compatibility: Pass / No Etching (Verified via ASTM/Internal SOP; 100% safe for architectural surfaces)**
- **Cleaning Efficiency Score (Soil Removal Index): 92% Removal (Verified via Reflectance Method)**
- **Heavy Metal Screening: Within limits (Verified via ICP-OES spectroscopy)**
- **Hard Water Calcium Binding Tolerance: 430 ppm (Verified via Calcium Binding Test; stable in tough groundwater)**
- **Bulk Density: 1.03 g/cc (Verified via ASTM D1895; stable packing profile)**
- **Solubility: 100% Water Soluble**

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SECTION 10: Stability and Reactivity

- Reactivity: Chemically inert and non-reactive when stored under specified dry guidelines.
- Chemical Stability: Stable under room-temperature warehouse parameters. Highly resistant to physical caking if protected from atmospheric humidity.
- Possibility of Hazardous Reactions: No hazard configurations or hazardous polymerization states known.
- Conditions to Avoid: Ambient high humidity, wet moisture entry into storage sacks, or contact with open water pools.
- Incompatible Chemicals: Highly reactive, strong mineral acids and intense oxidizing chemical agents.
- Hazardous Breakdown Outputs: Thermal degradation releases carbon dioxide (CO_2) and sulfur dioxide (SO_2) fumes.

SECTION 11: Toxicological Information

- Acute Oral Effects: Estimated LD50 (Oral, Rat) > 2,000 mg/kg (low toxicity danger).
- Dermal Toxicity / Skin Irritation: Officially verified as non-irritant under standard OECD in vitro testing frameworks at operational usage dilution (MCAL/2026/1277B).
- Ocular Degradation: Concentrated raw dust causes severe mechanical scratch risk and mucous membrane irritation if not washed instantly.
- Carcinogenicity Risks: Contains trace formaldehyde solution acting as a closed-pouch shelf stabiliser. Bound within an active dry powder matrix, it remains below occupational action exposure limits during regular industrial usage.

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SECTION 12: Ecological Information

- Ecotoxicity Impact: The raw, concentrated compound contains anionic surfactants (SLS). Do not discharge bulk concentrated powder directly into open river ecosystems or fish habitats.
- Biodegradability Index: The 48.5% surfactant active structure breaks down rapidly through standard environmental aerobic microbial pathways.
- Bioaccumulation: Minimal environmental bioaccumulation potential.
- Soil Mobility: Completely water-soluble; moves through water layers if an unmitigated industrial spill hits raw topsoil.

SECTION 13: Disposal Considerations

- Waste Processing: Dispose of industrial residues cleanly in strict alignment with regional environmental codes (such as the Telangana State Pollution Control Board guidelines in India).
- Bag Handling: Triple-rinse emptied plastic pouches with processing water. Direct clean plastic sheets to certified polymer recycling lines or commercial waste-to-energy recovery channels.

SECTION 14: Transport Information

- UN Shipping Number: Not Regulated (Classified as non-hazardous for land, sea, or air cargo logistics)
- Proper Technical Shipping Name: Cleaning Compounds, Granular Dry Powder
- Hazard Class: Not Applicable
- Packing Group: Not Applicable
- Marine Pollutant Status: No (According to IMDG specifications)

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SECTION 15: Regulatory Information

- National Industrial Standards: Formulated in compliance with standard Indian factory regulations. Raw materials align cleanly with Bureau of Indian Standards (BIS) parameters for commercial maintenance detergents.
- Chemical Safety Listings: All key active ingredients fit cleanly within US EPA TSCA frameworks and European REACH inventory regulations.

SECTION 16: Other Information

NFPA 704 Technical Core Rating (Concentrated Powder State)

- Health (Blue): 2 (Moderate Hazard - Protect Eyes from Dust)
- Flammability (Red): 0 (Minimal Hazard - Non-Combustible)
- Instability/Reactivity (Yellow): 0 (Minimal Hazard - Stable Compound)

Disclaimer:

The technical parameters integrated into this safety sheet match the official NABL laboratory certificates performed on Vonguard Cleantek's VC-1 Multi-surface compound at the permanent facility located in Boduppal, Hyderabad. This record functions strictly as an engineering safety guide for corporate B2B clients, contract blenders, and downstream facility processors.