

SAFETY DATA SHEET

Freedom Clean 1776 – Laundry Detergent

Product Code: 0007

Section 1 – Identification

Product Name: Freedom Clean 1776 Laundry Detergent

Product Code: 0007

Recommended Use: Laundry cleaning detergent – industrial and consumer applications

Restrictions on Use: Not for ingestion or use other than as intended

Manufacturer: Freedom Clean 1776, Fort Worth, TX, USA

Emergency Contact (24/7): CHEMTREC 1-800-262-8200

Section 2 – Hazard(s) Identification

GHS Classification:

- Eye Irritation, Category 2A
- Skin Irritation, Category 2
- Acute Toxicity (Oral), Category 5

Signal Word: Warning

Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- May be harmful if swallowed

Precautionary Statements:

- Wash hands thoroughly after handling
- Wear protective gloves and eye protection when handling bulk product
- IF ON SKIN: Wash with soap and water
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- If irritation persists: Get medical advice/attention
- Keep out of reach of children

Section 3 – Composition/Information on Ingredients

Component	CAS Number	Role	Concentration (% w/w)
Water (Deionized)	7732-18-5	Diluent	73–83%
Glutamic acid, N,N-diacetic acid, tetrasodium salt	51981-21-6	Chelating agent	0.25–0.35%
Sodium Hydroxide	1310-73-2	pH adjuster	1.0–2.0%
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	27176-87-0	Anionic surfactant	5–7%
N-Dodecyl-N,N-dimethylamine oxide	1643-20-5	Amphoteric surfactant	3–5%

Component	CAS Number	Role	Concentration (% w/w)
Alcohols, C12-14, ethoxylated sulfates, sodium salts	68585-34-2	Surfactant	3–5%
Alcohols, C12-15, ethoxylated	68551-12-2	Nonionic surfactant	1.5–2.5%
Acrylic acid homopolymer	Proprietary	Polymer dispersant	1.5–2.5%
Fatty acids, coco, N-(hydroxyethyl) amides	68603-25-8	Surfactant blend	1.5–2.5%
Distyrylbiphenyl disulfonic acid, disodium salt	16470-24-9	Optical brightener	0.15–0.25%

Section 4 – First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

Inhalation: Move person to fresh air. If symptoms persist, seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if large quantities are swallowed.

Section 5 – Firefighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, or foam.

Hazards: Product is not flammable but may produce irritating fumes in a fire.

Protective Equipment: Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6 – Accidental Release Measures

Contain spill to prevent entry into drains or waterways.

Absorb with inert material (sand, earth, absorbent pads).

Dispose of waste in accordance with local, state, and federal regulations.

Wear appropriate PPE (gloves, goggles).

Section 7 – Handling and Storage

Store in original, tightly closed container in a cool, dry, well-ventilated area.

Avoid contact with eyes and skin.

Do not mix with acids or other incompatible substances.

Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Occupational Exposure Limits: Sodium Hydroxide (PEL 2 mg/m³ ceiling, OSHA).

Engineering Controls: Ensure good ventilation in work area.

Personal Protection:

- Eye Protection: Safety goggles or face shield when handling bulk.
- Skin Protection: Chemical-resistant gloves.
- Respiratory: Not normally required with adequate ventilation.

Section 9 – Physical and Chemical Properties

Appearance: Clear to slightly hazy liquid

Odor: Mild, characteristic detergent odor

pH: ~10.0 – 11.0

Boiling Point: ~100°C (212°F)

Flash Point: Not applicable (water-based)

Solubility: Completely soluble in water

Specific Gravity: ~1.03 – 1.06

VOC Content: Negligible

Section 10 – Stability and Reactivity

Stable under normal conditions of use and storage.

Avoid contact with strong acids, oxidizers.

Hazardous decomposition products: carbon oxides, sulfur oxides, nitrogen oxides under fire conditions.

Section 11 – Toxicological Information

Likely Routes of Exposure: Skin, eyes, ingestion

Symptoms: Irritation to eyes and skin; nausea if ingested

Acute Toxicity: Generally low toxicity, but irritating at high concentrations

Carcinogenicity: None of the ingredients are listed as carcinogenic by IARC, NTP, or OSHA.

Section 12 – Ecological Information

Surfactants are biodegradable.

Large discharges may be harmful to aquatic life.

Avoid uncontrolled release to environment.

Section 13 – Disposal Considerations

Dispose of contents/container in accordance with local, state, and federal regulations.

Do not discharge to sewer or waterways.

Section 14 – Transport Information

DOT Classification: Not regulated as hazardous for transport

IMDG/IATA: Not regulated

Section 15 – Regulatory Information

All ingredients are listed on TSCA inventory.

OSHA HazCom: Hazardous

SARA Title III Sections 311/312: Acute health hazard (eye/skin irritation)

Section 16 – Other Information

Prepared by: Freedom Clean 1776 Regulatory Department

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