TECHNICAL PRODUCT DATA SHEET & OHS MANUAL
SAFETY HELMETS SERIES: ADR105, ADR106, ADR108

I. PRODUCT DATA SHEETS (TDS)

This section contains industrial safety helmet product specifications for models ADR105, ADR106, and ADR108. These helmets are designed to protect the upper head against injuries caused by falling objects, impacts, and mechanical hazards.

• **Model ADR105 (Blue Helmet):** Primarily designated for electricians, machinery operators, maintenance technicians, and personnel working at heights.

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- **Model ADR105 (Blue Helmet):** Primarily designated for electricians, machinery operators, maintenance technicians, and personnel working at heights.
- **Model ADR106 (Green Helmet):** Typically allocated to Occupational Health and Safety (OHS / BHP) inspectors, safety officers, and environmental coordinators.
- **Model ADR108 (Red Helmet):** Commonly used for visitors, external contractors, trainees, or specialized emergency/fire watch personnel on site.

Technical Specification Matrix

Parameter	Technical Specification & Standards
Shell Material	High-Density Polyethylene (HDPE) providing high impact resistance.
Harness System	4-point webbed suspension harness for secure anchoring and weight distribution.
Standard Equipment	Adjustable, heavy-duty chin strap included in the package.
Protection Class	CE Certified, Category II PPE, compliant with EN-397:2012+A1:2012.
Temperature Range	Operational reliability certified from -10°C to +50°C.
Lifespan / Service Life	Maximum 4 years from the manufacturing date stamped under the brim.

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II. OCCUPATIONAL HEALTH AND SAFETY (OHS) MANUAL

1. Pre-Operational Inspection Protocol

- **Shell Expiry Check:** Inspect the date code wheel molded under the helmet brim. The helmet must be replaced no later than 4 years from the date of manufacture.
- **Structural Integrity Check:** Conduct a visual inspection before every shift. Immediately decommission any helmet showing deep scratches, cracks, discoloration, or a deformed shell.
- **Harness Anchorage:** Verify that all 4 points of the inner harness suspension system are securely clipped into their respective slots inside the HDPE shell.

2. Safe Exploitation & Fit Guidelines

- **Size Adjustment:** Adjust the rear nape strap mechanism so that the helmet fits snugly. It must not fall off when leaning forward, nor cause excessive localized pressure.
- **Chin Strap Deployment:** The included chin strap must be fully buckled and tensioned at all times during work. Operating with an unfastened chin strap violates safety protocols.
- **Chemical Protection:** Do not clean the helmet shell with solvents, gasoline, or aggressive chemicals. Clean only using lukewarm water and mild soap.
- **Prohibition of Modifications:** Never drill holes into the shell, apply unapproved paints, or use strong adhesive stickers. Solvents in commercial adhesives can secretly degrade the HDPE polymer matrix.

3. Emergency & Post-Incident Procedures

- **The Single-Impact Rule:** If the helmet withstands a heavy blow from a falling object or falls from a significant height, it must be destroyed and discarded immediately.
- **Hidden Structural Defects:** Impacts create micro-fractures within the high-density polyethylene. The helmet completely loses its energy-absorbing properties even if it appears flawless from the outside.