LAUNDRY DETERGENT
SUPPLY CHAIN HOTSPOTS

1. Palm oil production – Environmental impacts
   Palm oil cultivation uses agricultural inputs and energy, and causes deforestation.

2. Palm oil production – Social impacts
   Palm oil cultivation causes issues such as worker and community health and safety, labor rights, and indigenous rights.

3. Fossil fuel combustion – Chemical plant operation
   Energy used for operating chemical plants depletes resources and releases emissions that can cause climate change.

4. Electricity consumption – Chemical plant operation
   Electricity generated to power chemical plants can cause climate change and impact human health.

5. Water use – Chemical plant operation
   Producing chemicals can deplete water resources and generate wastewater.

6. Chemical use – Chemical plant operation
   Workers can develop respiratory difficulties and skin irritation from exposure to chemicals.

7. Worker sensitization and allergy – Enzymes in manufacturing
   Workers can develop occupational illnesses from exposure to enzymes.

8. Water heating and use – Product application
   Electricity generated to heat water for washing can cause climate change.

9. Adverse health effects – Product application, laundry detergent
   Consumers may experience health issues when using detergent.

10. Electricity consumption – Equipment operation, laundry cleaning
    Electricity generated to power washing machines can cause climate change.

    Gases that are formed when detergent biodegrades can cause climate change.

12. Wastewater generation – Product flush
    Some detergent ingredients do not fully biodegrade and may accumulate in or cause toxicity to aquatic life.
Palm oil, palm kernel oil, and derivative ingredient sourcing

GREENHOUSE GAS EMISSIONS – SUPPLY CHAIN

WATER USE – SUPPLY CHAIN

WORKER HEALTH AND SAFETY – SUPPLY CHAIN

COLD WATER WASH FORMULATIONS

DOSSAGE CONTROL

USE PHASE MESSAGING

1. Palm oil, palm kernel oil, and derivative ingredient sourcing
   CORRESPONDS TO HOTSPOT(S): 1 2

2. Greenhouse gas emissions – Supply chain
   CORRESPONDS TO HOTSPOT(S): 4

3. Water use – Supply chain
   CORRESPONDS TO HOTSPOT(S): 6

4. Worker health and safety – Supply chain
   CORRESPONDS TO HOTSPOT(S): 10

5. Cold water wash formulations
   CORRESPONDS TO HOTSPOT(S): 14

6. Worker health and safety – Manufacturing
   CORRESPONDS TO HOTSPOT(S): 7

7. Ingredient disclosure – Manufacturer to consumer
   CORRESPONDS TO HOTSPOT(S): 11

8. Priority chemicals – Disclosure
   CORRESPONDS TO HOTSPOT(S): 13

9. Priority chemicals – Management
   CORRESPONDS TO HOTSPOT(S): 15

10. Priority chemicals – Safety
    CORRESPONDS TO HOTSPOT(S): 16

11. Dosage control
    CORRESPONDS TO HOTSPOT(S): 12

12. Use phase messaging
    CORRESPONDS TO HOTSPOT(S): 18