ENVIRONMENTAL CONTINGENCY PLAN FOR THE TRANSPORT OF A SELECTED CONTAINER OF GOODS



Prepared by:



Prepared for:



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	SELECTED CONTAINER OF GOODS			
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LIST OF ABBREVIATIONS

Carbon dioxide

CO₂ GPS Global positioning system Hazardous materials HAZMAT

PG

Packing group
Personal protective equipment
United Nations PPE

UN

1 INTRODUCTION

Geo Pollution Technologies (Pty) Ltd was appointed by Corridor Logistics (Pty) Ltd (the Proponent) to construct an environmental contingency plan for the transport of a selected container of goods from Walvis Bay, Namibia to Lubumbashi in the Democratic Republic of Congo.

2 PURPOSE AND SCOPE

This plan provides guidance on how to respond to incidents during the transport of a container carrying hazardous and non-hazardous materials

It applies to all personnel involved in the shipment - from loading to final delivery - including drivers, handlers, and supervisors.

3 CARGO SUMMARY

Table 3-1 Cargo Su	ımmary			
Item	Class / UN	Packing Group	Quantity (Kg)	Hazard
Nitric Acid	Class 8, UN 2031	PG II	2.3	Corrosive, oxidizing
Stalagmometer		PG II		Fragile
Alcafoam CL-M	Class 8, UN 1719	PG III	2,224.88	Corrosive
Flammable Liquid	Class 3, UN 1993	PG III	679.76	Flammable
Flammable Solids	Class 4, UN 1361	PG III		Self-reactive, flammable solid, can ignite spontaneously
Tumbler Glasses	Non- hazardous		7,601	Fragile
Spare parts	Non- hazardous		1,303.68	Fragile

4 TRANSPORT CHAIN OVERVIEW

Mode: Road transport across Africa from Namibia to Congo

Container Type: 40' high cube container

Carrier / Logistics Operator: Corridor Logistics

Origin: Walvis Bay, Namibia

Destination: Lubumbashi. The Democratic Republic of Congo

Border Crossings: Katima Mulilo, Zambia, The Democratic Republic of Congo - Lubumbashi

5 RISK IDENTIFICATION

Table 5-1	Risk identification
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Risk	Description	Impact	Likelihood	Mitigation / Control
				Measures
Leak/Spill (Nitric	Corrosive release	High	Medium	Use secondary
Acid or	damaging cargo or			containment, proper
Alcafoam)	injuring handlers			segregation, and PPE
Fire / Explosion	Ignition of flammable	High	Medium	Separate incompatible
	liquids (UN 1993) or			materials, keep away from
				heat sources, proper

Risk	Description	Impact	Likelihood	Mitigation / Control Measures
	flammable solids (UN 1361)			labelling, fire extinguishers
Spontaneous Ignition (UN 1361)	Flammable solid reacts to friction, heat, or contamination	High	Medium	Handle carefully, avoid impact, moisture, or contamination; store in ventilated area of truck
Breakage (Glassware)	Damage to tumbler pallets or instruments	Medium	Medium	Use shock-absorbent packaging, careful stacking
Container Damage or Accident	Collision or rollover	High	Low	Route planning, driver training, vehicle inspection
Environmental Contamination	Spill reaching soil or water	Critical	Low	Spill containment kits, immediate response protocol
Border/ Customs Delays	Documentation, inspections, or regulatory issues	Medium	Medium	Pre-cleared paperwork, local customs agents
Theft/ Hijacking	Cargo targeted in isolated or high-crime regions	High	Medium	GPS tracking, secure convoy travel, avoid night driving, secure overnight stops, local security liaison tracking,
Extreme Weather/ Poor Road Conditions	Floods, dust, potholes, seasonal challenges	Medium	High	Monitor weather, adapt schedule, use appropriate vehicles
Medical Emergencies	Remote areas, limited access to healthcare	High	Medium	Cell phone, first aid kits, emergency evacuation plan
Political / Civil Unrest	Roadblocks, demonstrations, checkpoints	High	Medium	Stay updated with travel advisories, reroute as necessary, avoid conflict zones

6 RESPONSE PROCEDURES

IMMEDIATE ACTIONS

- 1. **Ensure personal safety** Move away from danger zone.
- 2. **Identify the material involved** Use placards and labels.
- 3. Notify supervisor and emergency contacts immediately.
- 4. **Contain the spill** (only if safe):
 - For Nitric Acid: Use acid-neutralizing agent; avoid water contact.
 - For Alcafoam: Absorb with inert material (sand).
 - For UN 1993: Eliminate ignition sources; use foam or dry powder for small fires.
 - **Flammable Solid (UN 1361)** → avoid impact, friction, or moisture; isolate from other materials; use non-sparking tools
- 5. **Secure area** and prevent unauthorized access.
- 6. **Record details** (time, location, quantity, response actions).

SPECIFIC LAND HAZARDS

• Stay in secure locations during border stop or overnight rests

- Avoid high risk regions where cargo theft is reported
- Maintain constant GPS tracking and communication with operation control
- Use convoys for high-value or high-risk cargo where possible

7 COMMUNICATION CHAIN

Table 7-1 Contact Details

Role	Name	Contact	Responsibility
Incident Commander			Coordinate overall
			emergency response
Transport Supervisor			Manage driver and
			vehicle logistics
Safety/HAZMAT			Hazard containment
Officer			and clean-up
Communications			Notify authorities,
Officer			clients, media
Driver / Operator			Initial reporting and
_			securing of site

8 RESOURCES AND EQUIPMENT

- HAZMAT spill response kit (acid-neutralizer, absorbents, PPE)
- Fire extinguishers (foam, CO₂, dry chemical)
- ♦ Portable eyewash and emergency shower kit
- ♦ First aid kit
- Emergency contact sheet and route maps
- Secondary containment pallets

9 ALTERNATE ARRANGEMENTS

- **♦** Alternate Port / Route:
- **♦** Backup Transport Carrier:
- Storage Facility (if return needed):
- Data Backup: All shipping docs saved to company server/cloud

10 NOTIFICATION AND REPORTING

1. Internal:

- Operations Manager,
- **♦** Safety Manager,
- **♦** Quality Assurance

2. External:

- **♦** Terminal Authority
- ♦ Local Fire Brigade or Emergency Services
- Environmental Authority
- ♦ Client / Consignee
- **♦** Insurer
- Use Incident Report Form within 12 hours of event.

11 RECOVERY AND CONTINUITY

- ♦ Assess cargo and vehicle condition
- Isolate and safely dispose of damaged goods per hazardous waste protocol
- Clean contaminated areas with certified contractors
- Inspect and revalidate vehicle/container before reuse

• Conduct debrief meeting and update contingency plan based on lessons learned

12 TRAINING AND DRILLS

- ♦ HAZMAT response training: every 6 months
- Emergency spill drills: quarterly
- Driver safety refresher: annually
- Cross border procedures: Train in customs documentation and country-specific requirements
- Record all exercises in Training Log